

KP 12 CLD Color Keypanel User Manual

up to and including version 1.4.1



KP 12 CLD

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THE LIGHTNING FLASH AND ARROWHEAD WITHIN THE TRIANGLE IS A WARNING SIGN ALERTING YOU OF "DANGEROUS VOLTAGE" INSIDE THE PRODUCT.

CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



THE EXCLAMATION POINT WITHIN THE TRIANGLE IS A WARNING SIGN ALERTING YOU OF IMPORTANT INSTRUCTIONS ACCOMPANYING THE PRODUCT.

SEE MARKING ON BOTTOM/BACK OF PRODUCT.

WARNING: APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING AND NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

WARNING: THE MAIN POWER PLUG MUST REMAIN READILY OPERABLE.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, GROUNDING OF THE CENTER PIN OF THIS PLUG MUST BE MAINTAINED.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPRATUS TO RAIN OR MOISTURE.

WARNING: TO PREVENT INJURY, THIS APPARATUS MUST BE SECURELY ATTACHED TO THE FLOOR/WALL/RACK IN ACCORDANCE WITH THE INSTALLATION INSTRUCTIONS.

This product is AC only.

Important Safety Instructions

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

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Introduction

The revolutionary KP 12 CLD from RTS introduces several new features designed to enhance capability and ease of use. The intuitive graphical interface is housed inside two (2) full-color, 4.2 inch LCD displays. The front panel also features conveniences such as a user-programmable button, 1-touch listen volume adjustment on each of the new multifunction user keys, and a backlit keypad. In addition, the KP 12 CLD can be ordered with the new, more intuitive Default CLD key sequences, or the Classic key sequences. Like all RTS products, the KP 12 CLD is designed with expansion in mind. The front-mounted USB port and modular rear panel allow for future upgrades keeping the KP 12 CLD on the forefront of technology for years to come.

Full-Color LCD Displays	The new color displays hosts a rich and intuitive graphical user interface that indicates different keypanel functions in different colors.
Modern, Modular Design	The front panel is ergonomically designed to fit easily into any control room or truck application. The back panel is optimized for future expansion.
Multi-Directional Keys	14, multi-directional; 12 keys used for talk, listen, level control functions, and two(2) keys used for Mic Select and the CWW (Call Waiting Window).

Features

Future Expansion Designed to allow for an expansion panel and optional connections to the matrix through current and future standard transmission formats.

Enhanced Features KP 12 CLD allows up to three (3) auxiliary inputs, three (3) relays, independent digital gain control for microphone sources, configurable audio routing and much more, through the use of an option board.

DSP Processing Acoustic Echo Cancellation, Equalization, Mixing, Filtering and Metering are available.

User-Programmable Button A UPG (User Programmable Button) provides custom shortcuts to various menu functions.

KP 12 CLD Expansion Panel The KP 12 CLD expansion panel provides additional connectors for relay, headset, Available footswitch/speaker, mic In/Out, auxiliary, and other functions.

The RVON-2 Option card provides up to two (2) additional full-duplex audio channels that **RVON-2 Option Card Available** can be mixed with audio in the CLD keypanels.

The OKI-2 Option card provides up to two (2) additional full-duplex audio channels that can OKI-2 Option Card Available be mixed with audio in the CLD keypanels.

Specifications	Panel Speaker Frequency Response		GP	IO Opto		·9 (see "DI le) Opto-Is	
LCD Directors	$250 - 15 \text{kHz} \pm 2 \text{dB}$			lators 1-		·)" on page	
LCD Display Size	Sensitivity,				,	pinouts).	
4.2" LCD	84		General		•		
Resolution:	Power		KP 12 (CLD			
432 (RGB) x 96	$4W, 8\Omega$		Sto		nperature		
Input Sources	Tone Generator		-40°C to 70°C (-40°F to 158°F)			58°F)	
Panel Microphone / GPIO MIC IN	Output Lev		Operating Temperature				
Electret Microphone Input Level	8dBu		-15°C to 50°C (5°F to 122°F)				°F)
Nominal Level	Output Fre		Dimensions				
-42.5dBu		z or 1kHz	19"L x 1.74"H x 4.28"D				
Maximum Level	General IO	2 / /		,		x 44.2mm	X
-22.5dBu	1-3 Relay (08.71mm		.1
Impedance		Collectors				ansion pan	
$1k\Omega$ to $10k\Omega$	1-4 Opto-Is	solators				1.72"H x 3	
Headset	Connectors	1/422 Table (and %1 1/422				1 x 43.69m	ım x
Dynamic Microphone Input Level	Donal	1/4" Jack (see "1 1/4"	Wa		3.9mm)		
Nominal Level	Panel Microphone	Stereo Jack (Panel Mic)" on page 16 for	we	eight KD 12	CLD (lea-	panel only	·.)·
-60dBu	Microphone	pinouts).			CLD (key (1.705kg)		y) .
Maximum Level		4-, 5-, 6-pin Female				, ansion pan	al only:
-30dBu		XLR (see "4-, 5-, 6-,			(1.115kg)		only.
Impedance	Panel Headset	7-pin XLR (Female)	Pos		sumption		
≤600Ω	Tanci Ticausci	Headset" on page 16	10	a	_		
Electret Microphone Input Level		for pinouts).		12		20 VAC	
Nominal Level	USB	USB Type A			AC	20 1/10	
-42.5dBu	OSB	DB-9, RJ-45 (Supports	No Opti				
Maximum Level		RTS RJ-11 cabling or	GPIO O				
-22.5dBu		Standard CAT-5	RVON (-			
Impedance	Keypanel	cabling) See "RJ-45	GPIO ar	-			
$1k\Omega$ to $10k\Omega$	Audio Input /	Frame (RTS RJ11	RVON	58	86		
Keypanel Input	Output	Cable)" and "DB-9	Options				
Nominal Input Level 8dBu		(male) Frame" on	OKI On	ly 32	2 49		
махітит Input Level	page 18 for pinouts.		GPIO ar	nd (
20dBu		RJ-45 (see "RJ-45 OKI Options 60 88					
Auxiliary Input	Expansion	EXP (expansion)" on	•				
Nominal Input Level		page 18 for pinouts).					
8dBu		Male XLR-3 (see		Freque	ncy	50Hz 1	to 19kHz
Maximum Input Level	GPIO MIC	"XLR-3 (male) - Mic		Respon		J011Z (O 17K11Z
20dBu	OUT	OUT" on page 17 for		Networ	·k	<20m	s typical
Output		pinouts).		Delay	_		is typical
Keypanel Output		Female XLR-3 (see			Requiren	nents	
Nominal Output Levels	GPIO MIC IN	"XLR-3 (female) -	Per	Channe		401.11	. /2.4 D*4
8dBu		Mic IN" on page 17		Rx Lat	-		Iz/24-Bit
Maximum Output Level		for pinouts).		Ir	ns	2.	59Mbit/s
20dBu		Female XLR-3 (see "XLR-3 (female) -					
Frequency Response	GPIO Aux 1-2	AUX 1&2" on page 17	RVON-	2 Option	1 Board		
$100 - 15 \text{kHz} \pm 2 \text{dB}$		for pinouts).	Com-	Audio	Coding	g Playout	IP .
MIC OUT		DB-9 (see "DB-9	pression			Delay	Bana-
Nominal Output Level	GPIO Headset	,	•		•	20	width
8dBu	GI 10 HeadSet	page 17 for pinouts).	G.711	64k	125us	20-	160–
Maximum Output Level	coro = :	DB-9 (see "DB-9				60ms 20–	224kbps 32–
20dBu	GPIO Relays	Relay 1, 2, 3" on	G.729A	8k	10ms	20– 120ms	32– 112kbps
Frequency Response	1-3	page 16 for pinouts).		5.3k/		60–	112kbps 29–
100 - 15kHz ±2dB		DB-9 (see "DB-9	G.723	6.3k	30ms	120ms	45kbps
Headphone Speaker	GPIO Open	(male) Open Collector		0.5K		1201118	TOKUPS
Power	Collector	(1-2)" on page 16 for					
80mW into 600Ω		pinouts).					
Impedance 150Ω							
13022							

KP 12 CLD Block Diagram

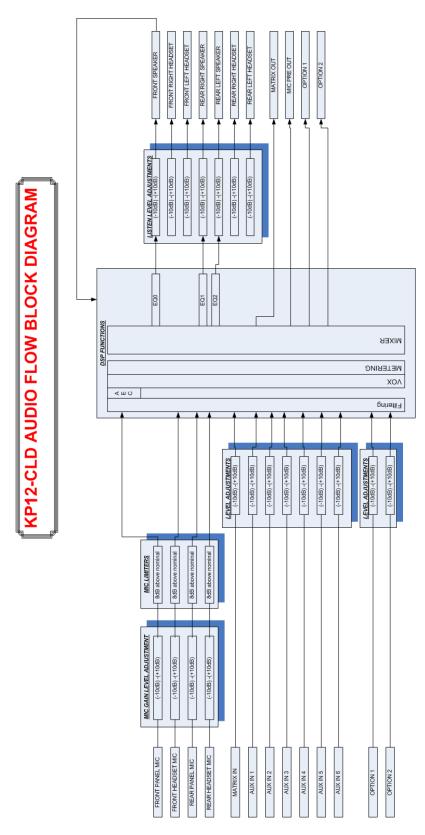


FIGURE 1. KP 12 CLD Block Diagram

Reference View - KP 12 CLD



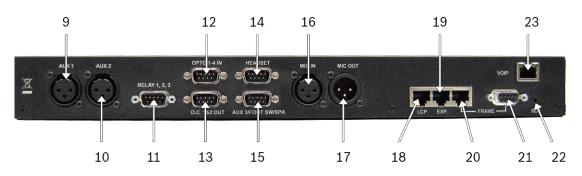
FIGURE 2. KP 12 CLD Front Panel

Front Panel Descriptions

- 1. **USB Connector** Power enabled USB connector.
- 2. 1/4" Stereo Jack Panel Mic.
- **3. Keypanel Keys** Press down to talk, press up to listen. For more information, see "Basic Intercom Key Operation" on page 41.
- 4. Panel Speaker For more information, see "Mute the Microphone/Speaker" on page 49.
- 5. **UPG button** The user can assign many functions from the menu structure to this key.
- **6. BACK button** Allows you to go backward in the menu structure.
- 7. **FWD button** Allows you to go forward in the menu structure.
- **8. MENU button** For detailed explanation, see "KP 12 CLD Menu System" on page 67.
- 9. Main Volume Adjusts the volume for the front speaker, rear speaker, front headset and rear headset.
- 10. 4- or 5-pin XLR (female) Headset only connection.
 - **6- or 7-pin XLR (female) -** Headset and Footswitch connection.



KP 12 CLD Keypanel Rear



GPIO Expansion Panel with RVON-2 Rear Panel View



GPIO Expansion Panel with OKI Rear View

FIGURE 3. KP 12 CLD Back Panel and KP 12 CLD Expansion Panel with RVON-2 and OKI Option Cards

KP 12 CLD Rear Panel Descriptions

- 1. AC Power Connector
- 2. Extension 2
- **3. RJ-45 Connector LCP 16 CLD** –used to control AUX, Speaker and Headset levels.
- 4. RJ-45 Connector Expansion
- 5. **RJ-45 Connector Frame**
- 6. Extension 1
- 7. **DB-9 Connector** Frame
- **8. Boot Loader** For more information, see "Download Firmware Using the BLR Function" on page 62.

Optional GPI 12 Expansion Unit

- 9. XLR-3 (female) Connector Aux 1
- 10. XLR-3 (female) Connector Aux 2
- **11. DB-9 (male) Connector** Relay 1, 2, 3
- 12. DB-9 (male) Connector Opto 1-4 IN
- 13. DB-9 (male) Connector OC 1 and 2 OUT

- 14. DB-9 (male) Connector Headset
- 15. DB-9 (male) Connector Aux 3/Footswitch/Speaker
- 16. XLR-3 (female) Connector Mic IN
- 17. XLR-3 (male) Connector Mic OUT
- **18. RJ-45 Connector LCP 16 CLD -** used to control AUX, Speaker and Headset levels.
- 19. RJ-45 Connector Expansion
- 20. RJ-45 Connector Frame
- 21. DB-9 Connector Frame
- **22. Boot Loader** For more information, see "Download Firmware Using the BLR Function" on page 62.

Optional RVON-2 Option Card

23. Ethernet RJ-45 Connector - RVON-2 Matrix Connection

Optional OKI Option Card

- 24. Ethernet RJ-45 Connector (2x) OKI Matrix Connection
- 25. LC Fiber Connector

Connector Pinouts

Main Unit

USB Type A			
1	USB 5V		
2	Data -		
3	Data +		
4	DGND		

1 1/4" Stereo Jack (Panel Mic)				
Tip Audio + and DC Bias				
Ring	GND			
Sleeve	Chassis GND			

	4-, 5-, 6-, 7-pin XLR (Female) Headset					
	4-pin	5-pin	6-pin	7-pin		
Pin 1	GND (MIC)	GND (MIC)	GND (MIC)	GND (MIC)		
Pin 2	MIC +	MIC +	MIC +	MIC +		
Pin 3	GND (SPK)	GND (SPK)	GND (SPK)	GND (SPK)		
Pin 4	L SPK	L SPK	L SPK	L SPK		
Pin 5		R SPK	GND (FS)	R SPK		
Pin 6			Footswitch	GND (FS)		
Pin 7				Footswitch		

Expansion Panel

DB-9 Relay 1, 2, 3				
	RLY 1 RLY2 RLY3			
Common	Pin 2	Pin 5	Pin 8	
NC	Pin 1	Pin 4	Pin 7	
NO	Pin 3	Pin 6	Pin 9	

DB-9 (male) Opto-Isolator (1-4)				
Pin	Assignment			
1	GND			
2	GND			
3	GND			
4	GND			
5	GND			
6	Switch Contact Input 1			
7	Switch Contact Input 2			
8	Switch Contact Input 3			
9	Switch Contact Input 4			

DB-9 (male) Open Collector (1-2)	
Pin	Assignment
1	DGND
2	Emitter OC1
3	Collector OC2
4	DGND
5	Emitter OC2
6	Collector OC2
7	+5VD
8	NC
9	+5VD

DB-9 (male) Headset	
Pin Assignment	
1	AGND
2	NC
3	NC
4	NC
5	Mic Input +
6	AGND
7	Headset Listen Out Left
8	Headset Listen Out Right
9	Mic Input -

XLR-3 (female) - Mic IN	
Pin	Assignment
1	AGND
2	Audio + and DC Bias
3	AGND
<u> </u>	

DB-9 (male) AUX 3/Footswitch/Speaker	
Pin	Assignment
1	NC
2	Speaker Left -
3	Aux 3 =
4	Speaker Right -
5	Footswitch
6	Speaker Left +
7	Aux 3 -
8	Speaker Right +
9	DGND

XLR-3 (male) - Mic OUT	
Pin	Assignment
1	AGND
2	Audio Output +
3	Audio Output -

XLR-3 (female) - AUX 1&2	
Pin	Assignment
1	GND
2	Input +
3	Input -

Main and Expansion Panel

DB-9 (male) Frame	
Pin	Assignment
1	RS-485 +
2	RS-485 -
3	Shield
4	Audio OUT (to Matrix) +
5	Audio OUT (to Matrix) -
6	Shield
7	Audio IN (from Matrix) -
8	Audio IN (from Matrix) +
9	Shield

RJ-45 EXP (expansion)	
Pin	Assignment
1	GND
2	GND
3	GND
4	GND
5	RS-485 +
6	RS-485 -
7	GND
8	Reserved

RJ-45 Frame (RTS RJ11 Cable)	
Pin	Assignment
1	N/A
2	RS-485 -
3	Audio IN (from Matrix) +
4	Audio OUT (to Matrix) +
5	Audio OUT (to Matrix) -
6	Audio IN (from Matrix) -
7	RS-485 +
8	N/A

RJ-45 LCP	
Pin	Assignment
1	Data to LCP
2	Clock OUT
3	Data from LCP
4	GND
5	GND
6	GND
7	GND
8	GND

NOTE: See Figures 4, 5, 6 for specific switch settings for the type of RJ-45 cable connection used.

RJ-45 Frame (Commercial Ethernet Cable)	
Pin	Assignment
1	RS-485 + (pair 1&2)
2	RS-485 - (pair 1&2)
3	Audio IN (from Matrix) +
4	Audio OUT (to Matrix) +
5	Audio OUT (to Matrix) -
6	Audio IN (from Matrix) -
7	RS-485 + (pair 7&8)
8	RS-485 - (pair 7&8)

Accessing the Switch Bank on the KP 12 CLD Unit

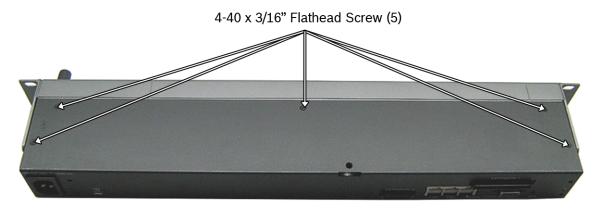
Use the Switch Bank, shown in Figure 4, Figure 5, and Figure 6 to configure the cable scheme you want to use. There are three (3) available Ethernet cabling arrangements:

NOTE: Currently Ethernet Standard 568A and 568B are not supported.

- USOC
- RS-485 using pin 1 and pin 2 (Ethernet standard 568A)
- RS-485 using pin 7 and pin 8 (Ethernet standard 568B)

To access the switch bank, do the following:

1. Remove the **five (5) screws** on the top of the unit.

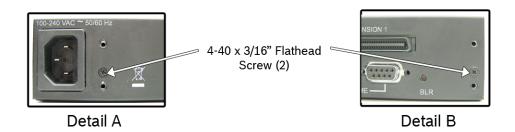


KP 12 CLD Top View

2. Remove the **following screws**.



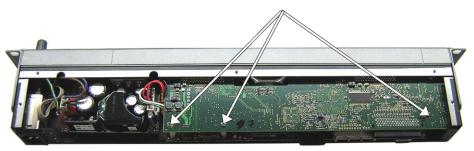
Back View



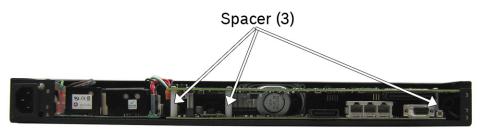
3. Carefully lift the **chassis up and back** to remove the back panel.

4. Remove the three (3) stabilizing screws and standoffs.

4-40 x 1.25" Pan Head Screw (3)



Top View (cover removed)



Back View (cover removed)

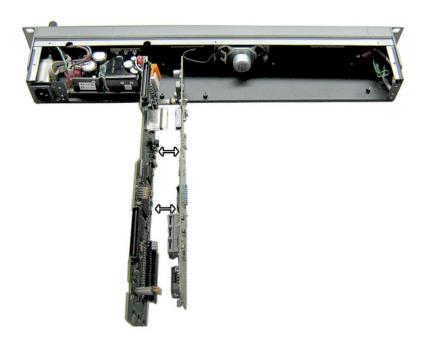
5. Gently pull the board set from the unit.



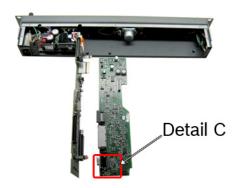


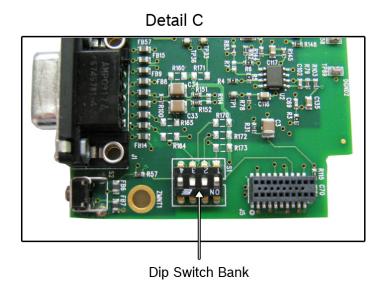
Top View (cover removed)

6. Gently pull the **bottom board from the top board** taking care not to pull the wires attached to the top board free.



7. Using a pen or screwdriver, set the **switches** to the type of operation you desire. For operation modes, see Figure 4, Figure 5, or Figure 6 on page 23.





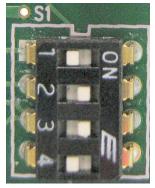
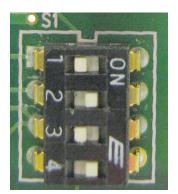


FIGURE 4. RTS Standard Cable (USOC)

Switch 1 - OFF Switch 2 - ON Switch 3 - ON Switch 4 - OFF Switch 6



Switch 1 - ON
Switch 2 - OFF
Switch 3 - ON
Switch 4 - OFF

Switch 3 - ON

Switch 4 - OFF

568A Wiring

FIGURE 5. Standard CAT-5 Cable using pin 1 and pin 2 for RS-485 functionality (568A)

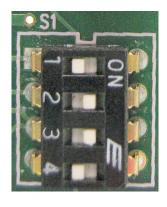




FIGURE 6. Standard CAT-5 Cable using pin 7 and pin 8 for RS-485 functionality (568B)

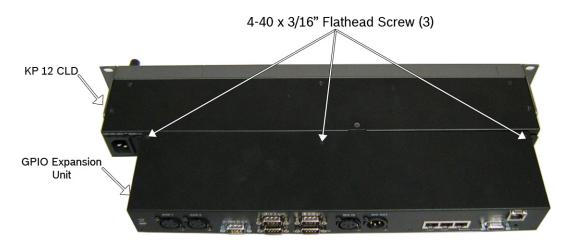
Accessing the Switch Bank on the KP 12 CLD Expansion Panel

Because the KP 12 CLD has a separate expansion panel, you must set the mode of operation dip switches within the expansion unit rather than the keypanel unit. Use the Switch Bank, shown in Figure 4, Figure 5, and Figure 6 to configure the mode of operation you desire:

- USOC
- RS-485 using pin 1 and pin 2
- RS-485 using pin 7 and pin 8

To access the switch bank, do the following:

1. Remove the **three (3) screws** on the top of the unit.



2. Remove the three (3) screws from the back panel of the KP 12 CLD expansion panel.



BACK

3. Remove the XLR connector screws (8).



Back

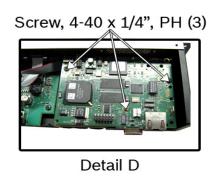
4. Using a 1/4" nut driver, remove the **DB-9 connector hex screws** (12).



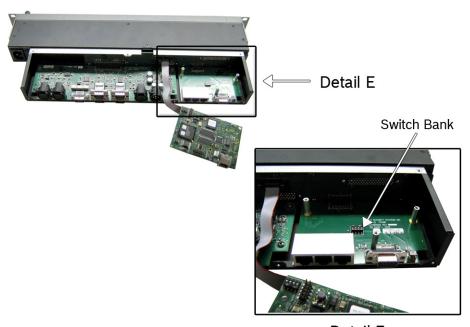
Back

- **5.** Carefully slide the top/back chassis to remove the **back panel**.
- **6.** Remove the **RVON-2 board screws** (3), securing the RVON-2. (Optional)





7. Remove the RVON-2 board and set it aside.



Detail E

8. Using a pen or screwdriver, set the **switches** to the type of operation you desire. For operation modes, see Figure 4, Figure 5, or Figure 6.

CHAPTER 2

Installation

Requirements

The following keypanel firmware versions are needed for the specified KP 12 CLD model:

KP 12 CLD	1.0.1 or late
KP 12 CLD with RVON-2 option card	1.0.1 or late
KP 12 CLD with OKI-2 option card	1 3 0 or later

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KP 12 CLD Installation

NOTE: You can use only one (1) type of Frame connection to the Matrix at a time.



FIGURE 7. KP 12 CLD Installation

NOTE: To **install the GPIO Expansion Panel**, see "KP 12 GPIO Expansion Panel Installation" on page 29.

To install the KP 12 CLD, do the following:

- 1. Plug the **Power Cord** (A) into the power connector on the KP 12 CLD.
- 2. If required, set the keypanel address.

NOTE: For addressing information, see "Address Setting" on page 31 and "Service Menu, Set Address" on page 146.

3. Connect an RJ-11 cable with RTS cabling (B).

OR

Connect an RJ-45 cable with RTS cabling (C) to the frame connector (see Figure 7).

OR

Connect a **DB-9 cable** (D) to the DB-9 frame connector (see Figure 7).

NOTE: For pinout information, see "Connector Pinouts" on page 16.

4. Using the KP 12 CLD and AZedit, configure your **keypanel** for operation.

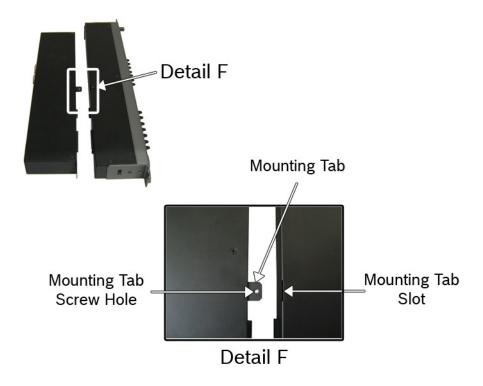
KP 12 CLD Installation 29

KP 12 GPIO Expansion Panel Installation

To install the KP 12 CLD GPIO Expansion Panel, do the following:

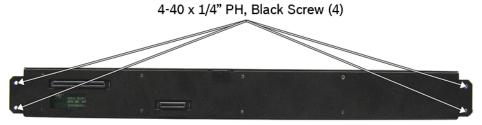
1. Align the **mounting tab** found on the front of the KP 12 CLD expansion panel with the mounting tab slot located on the rear of the KP 12 CLD unit.

CAUTION: Do not attach the KP 12 CLD expansion panel with the supplied screw until the unit is attached on the sides. Attaching the unit prematurely may cause the expansion panel tab to bend or be damaged. Continue to step 2.



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2. Using the screws provided, attach the KP 12 CLD expansion panel to the rear panel of the KP 12 CLD unit.

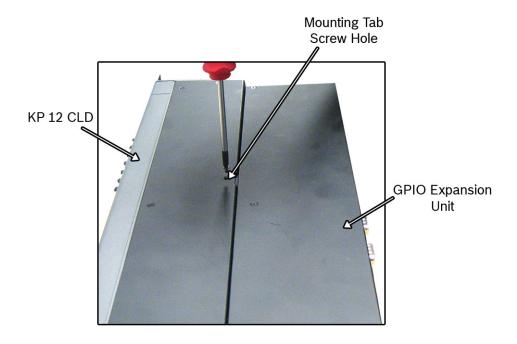


GPIO Expansion Unit Front View



GPIO Expansion Unit Attachment Points

3. Using the screw provided, attach the mounting tab to the mounting tab slot.



KP 12 CLD Installation 31

Power Up

NOTE: The power supply accepts 100–240VAC, 50/60Hz.

At power-up, if the keypanel is connected to the matrix, the alphanumeric display shows dashes in the light blue color key

. After several seconds to one (1) minute, the intercom key assignments display with the appropriate color keys and alphas.

NOTE: If the keypanel cannot establish communications with the intercom system, all alphanumeric displays continue to show asterisks and the *Disconnected from Matrix* icon appears in the display. Check the keypanel to matrix cable connection if this occurs. If the keypanel loses communications with the intercom, the display shows the Disconnected from Matrix icon and displays the after approximately 30 seconds.

Address Setting

General Information

In ADAM AIO-8, ADAM CS, and Zeus intercom systems, intercom ports are arranged in groups of eight (8). All ports in a group share a common data port. Each keypanel is uniquely identified on the data port by its address. The method of determining the proper address varies for each intercom system. Use the method for your intercom system, as described on the following pages.

TABLE 1. KP 12 CLD Addressing

Manually Addressed	Automatically Addressed	
You must manually address ^a the keypanel when using the following: • AIO-8 on ADAM • AIO-16 SCSI on ADAM • ADAM • ADAM CS	 AIO-16 MDR 6 ADAM-M Cronus RVON Product 	ts - RVON-8, RVON-1,
Zeus IZeus II	RVON-C, and Zeus III NOTE: Keypanels usin addressed. See	ng RVON-I/O may need to be individually
	RVON-I/O use instruction.	r manual (F.01U.193.280) for further

a. To manually address the KP 12 CLD, see "Service Menu, Set Address" on page 146.

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REFERENCE:

- ADAM with AIO-8 cards, see the ADAM installation user manual (P/N F.01U.261.249 found at http://www.rtsintercoms.com).
- ADAM CS, see the ADAM CS Installation user manual (P/N 93307515000 found at http://www.rtsintercoms.com).
- ADAM and ADAM-M with AIO-16 cards, see the AIO-16 manual (P/N F.01U.193.267 found at http://www.rtsintercoms.com).
- Cronus, see the Cronus user manual (P/N F.01U.118.890 found at http://www.rtsintercoms.com).
- Zeus III, see the Zeus III user manual (P/N F.01U.193.289 found at http://www.rtsintercoms.com).
- Zeus III LE/LE+, see the Zeus III LE/LE+ user manual (P/N F.01U.193.290 found at http://www.rtsintercoms.com).

NOTE: If you are connecting to an ADAM or ADAM-M frame with AIO-16 cards or a Cronus frame, you do not need to set the address, it is done dynamically.

Connections

Frame Connector

Use either of the Frame connectors (but not both) to connect to an intercom port of the intercom system. For frame connector locations, see Figure 3 on page 15. The intercom port you connect to should agree with the address you set previously.

Headset Connector

A stereo headset may be connected to the front of the unit (or rear, with optional KP 12 CLD expansion panel installed) for use along with or in place of the front/rear panel speaker and a separate microphone. Headphones may be connected for use with a separate microphone.

Panel Microphone Connector

A panel microphone may be connected to the front (or rear, with optional KP 12 CLD expansion panel installed) of the unit for talking with either the front/rear panel speaker or headphones used for listening. The connector accepts MCP-5, MCP-6, or MCP-90 series panel microphones. Insert the microphone and rotate the entire microphone body several turns to lock in place.

Footswitch Connector

A 6- or 7-pin headset connector may replace the standard 4- or 5-pin headset connector to include a front footswitch to the front panel of the KP 12 CLD, in place of the headset connector.

Basic Operation

Intercom Keys and Displays

Color Display Descriptions for Intercom Keys

The KP 12 CLD display uses key colors to distinguish the type of key assignment assigned to the key. Use Table 2, Default Key Colors, to help you determine the available key assignment colors.

TABLE 2. Default Key Colors

Color Swatch	Default Color	Description
	Amber	Waiting for Footswitch
	Bright Green	Listen Indicator, Local Matrix
	Brown	IFB Special List
	Teal	Point-to-Point
	Dark Yellow	ISO
	Light Blue	Unassigned, Test Mode (with talk/listen indicators)
	Pale Yellow	Special Functions
	Magenta	Relay
	Pink	Party Line
	Red	Remote Matrix
	Salmon	IFB, Talk Indicator
	Pale Green	Special List
	Periwinkle	UPL Resource

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Display Icons

Display Icons are used to indicate the accessories and features enabled, disabled, active, and inactive. Use Table 3 for a complete description of each icon seen on the KP 12 CLD.

TABLE 3. Display Icon Descriptions

Icon	Icon Name	Description
1/-	Matrix Connected	The keypanel is connected to the Matrix. This icon briefly displays at connection.
J DISCONNECTED FROM MATRIX	Disconnected From Matrix	There is no connection between the Matrix and the keypanel.
↓ Firmstone ↓	Firmware Download	The firmware is being downloaded to the keypanel. The progression bar displays the following:
		• chunk progress (Orange)
		• overall progress (Amber)
		chunk and overall progress (Gray)
		NOTE: For more information, see "Download Firmware to the Color Keypanel Family From AZedit" on page 59.
FS	Footswitch Active	The footswitch is active.
FS	Footswitch Enabled	The footswitch is enabled, but not active. NOTE: When a talk key is latched while the Footswitch is enabled, the key display turns amber to signify that it is waiting for footswitch.
F	Front Headphones	The front headphones are enabled. This indicates the front headset microphone is not enabled.
F	Front Headset	The front headset is enabled.
₽	Front Headset Mic Muted	The front headset mic is muted.
<u> </u>	Front Microphone	The front microphone is enabled.
₽	Front Microphone Muted	The front microphone is muted. To mute the front microphone, see "Mute the Microphone/Speaker" on page 49.
		NOTE: A flashing mute icon appears on any active mics when the mic mute key is pressed.
		If tone is enabled, which disables mics, the mute icon appears on any active mic, but does not flash.
	Front Speaker	The front speakers are enabled. To enable the front speaker, see "Audio Options Menu, Speaker" on page 92.

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TABLE 3. Display Icon Descriptions

Icon	Icon Name	Description
	Front Speaker Muted	The front speakers are muted. To mute the front speaker, see "Mute the Microphone/Speaker" on page 49.
R	Rear Headphones	The rear headphones are active. This indicates the rear headset microphone is not enabled. To activate the rear headphones, see "Audio Options Menu, Headset Spkr" on page 82.
R	Rear Headset	The rear headset is active.
R	Rear Headset Muted	The rear headset mic is muted.
<u>®</u>	Rear Microphone	The rear microphone is active. To activate the rear microphone, see "Audio Options Menu, Panel Mic" on page 90.
<u>&</u>	Rear Microphone Muted	The rear microphone is muted. NOTE: A flashing mute icon appears on any active mics when the mic mute key is pressed. If tone is enabled, which disables mics, the mute icon appears on any active mic, but does not flash.
()	Rear Speaker	The rear speaker is active. To activate the rear speaker, see "Audio Options Menu, Speaker" on page 92.
43	Rear Speaker Muted	The rear speaker is muted. To mute the rear speaker, see "Mute the Microphone/Speaker" on page 49.
B	Both Headphones	Both front and rear headphones are enabled. This indicates the both the front and rear headset microphones are disabled. To enable the front headphones, see "Audio Options Menu, Headset Spkr" on page 82.
B	Both Headsets	Both front and rear headsets are active.
₽	Both Headsets Muted	Both front and rear headset mics are muted.
<u> </u>	Both Microphones	Both front and rear microphones are enabled.
<u>&</u>	Both Microphones Muted	Both front and rear microphones are muted. To mute the front microphone, see "Mute the Microphone/Speaker" on page 49.
		NOTE: A flashing mute icon o appears on any active mics when the mic mute key is pressed.
		If tone is enabled, which disables mics, the mute icon appears on any active mic, but does not flash.

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TABLE 3. Display Icon Descriptions

Icon	Icon Name	Description
	Both Speakers	Both front and rear speakers are enabled. To enable the front speaker, see "Audio Options Menu, Speaker" on page 92.
1	Both Speakers Muted	Both front and rear speakers are muted. To mute the front speaker, see "Mute the Microphone/Speaker" on page 49.
9	Snoop Tally Active	Snoop Tally is Active on the keypanel. You must have the Hot Mic enabled to use snoop tallies. To enable snoop tallies, see "Service Menu, Snoop Tally" on page 147.
<u>•</u>	Hot Mic	The hot mic is active. To activate Hot Mic, see "Audio Options Menu, Outp Level" on page 89.
1KHZ	Tone 1kHz Enabled	Tone 1kHz is enabled on the keypanel. To enable tone 1kHz, see "Audio Options Menu, Tone Gen" on page 93.
500Hz	Tone 500Hz Enabled	Tone 500Hz is enabled on the keypanel. To enable tone 500Hz, see "Audio Options Menu, Tone Gen" on page 93.
	Main Volume Bar	The main volume bar is used to control the volume for the keypanel inputs and outputs, including all speaker and headset outputs, and matrix and aux inputs. If the volume of a speaker or headset is turned down to mute, the mute icon appears on the speaker or headset. NOTE: If both the front and rear speaker or headset are enabled, the mute icon only appears if both the front and rear volumes are in the mute position.
-	User Volume Bar	The user volume bar is used to control the listen gain on a per key level. The listen gain range is +6dB to -80db, or <i>Mute</i> . NOTE: Listen must be assigned on the key assignment for this function to operate.
OMNEO	OMNEO Enabled	OMNEO Offers (Only available with OKI option card installed)" on page 120.
OMNEO	OMNEO Disabled	The OMNEO is disabled on the CLD panel. For more information, see "Menu System, OMNEO Offers (Only available with OKI option card installed)" on page 120.
RVON HILL	RVON Enabled	RVON is enabled on the CLD panel. For more information, see "Menu System, RVON Offers (Only available with the RVON-2 option card installed)" on page 122.
RVON	RVON Disabled	RVON is disabled on the CLD panel. For more information, see "Menu System, RVON Offers (Only available with the RVON-2 option card installed)" on page 122.
VIRT	Virtual Key Assignment	Keys are active on a virtual keypanel that are not being displayed. For more information, see "Key Options Menu, Panel Swap" on page 114. NOTE: A talk or listen bar (or both) displays to indicate which type of virtual
		keys are active.

Standard Keypad

There are two (2) different keypad sequences you can apply to the KP 12 CLD unit, the Standard keypad sequence and the Classic keypad sequence. See "KP 12 CLD Keypad Quick Reference" on page 159 to view the Keypad Sequence Quick Reference.

To select the desired keypad sequence, do the following:

- **1.** On the KP 12 CLD, press the **MENU** button. *The top-level menu appears*.
- 2. Using the arrow keys, scroll to **Service**.
- **3.** Press the **SEL** button. *The Service menu appears.*
- 4. Using the arrow keys, scroll to **Keypad**.
- 5. Press the SEL button.

 Backlight, SEL key, and Sequences appear in the display.
- **6.** Verify **Sequences** is highlighted.
- **7.** Press the **SEL** button. *Classic and Standard appear in the display.*
- **8.** Using the arrow keys, select the **keypanel sequence** you want to enable.
- **9.** Press the **SEL** button.

KP 12 CLD Standard Keypad

NOTE:

- For information on Standard keypad sequences, see "Default Keypad Sequence" on page 162.
- For information on the Classic Keypad, see "Classic Keypad Sequence" on page 160.



KEYPAD BUTTON	DESCRIPTION ^a			
MENU button	The MENU button is used to access the top-level menu structure.			
	> Press the Menu button once. The top-level menu appears in the display.			
	NOTE: If the keypad backlight is set to Activate (<i>Service</i> <i>Keypad</i> <i>Backlight</i>), you must press the Menu button twice to access the top-level menu.			
FWD button	The FWD button moves you forward through the menu option highlighted. For example, if Display is highlighted in the display and FWD is pressed, the second level of the display menu appears.			
BACK button	The BACK button moves you backward, one (1) level, through the menu structure.			
	NOTE: If you are at the top-level of the menu structure and press BACK, you cannot move back any further.			
UPG button	The UPG button is used to assign a frequently used menu item. This allows users to access the menu item quickly. UPG buttons can also be programmed to trigger GPI outputs and panel swap events.			
LOC (1) button	The LOC (1) button displays the list of available intercoms (LOCations) available to scroll from. Select an intercom name to access the scroll lists fro that intercom.			
TYPE (4) button	The TYPE (4) button displays the keypanel type assignments available for use.			
COPY (7) button	The COPY (7) button is used to copy an incoming call key assignment from the CWW to a specific keypanel key.			
	For example, if caller THRE calls the keypanel, and there is no keypanel key assigned, THRE appears in the DWW window in the keypanel display. If the keypanel operator wants to assign the call (THRE) a key, use the COPY (7) key on the keypad, and then tap the keypanel key where THRE is to be assigned.			
	NOTE: You can also copy from key to key by pressing COPY/SEL, and then tapping the source key and target key.			

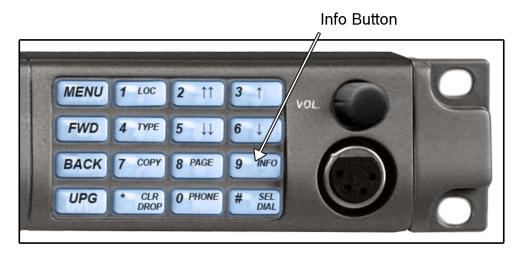
CLR/DROP (*)	The CLR/DROP (*) button is used to clear the CWW window or exit out of the menu structure.			
button	If the CLR/DROP button is pressed when in TIF mode, it hangs up the TIF connection.			
↑↑ (2) button	To access the DROP function, press PHONE (0), then DROP (or DIAL). The DIAL/DROP menu item appears. You use the menu normally, or use the DROP or DIAL keypad keys directly. The \(\bullet\cap{1}(2)\) button is used to page UP through available key assignments or menu options.			
$\downarrow \downarrow$ (5) button	The $\downarrow\downarrow$ (5) button is used to page DOWN through available key assignments or menu options.			
PAGE (8) button	The PAGE button is used to access a different setup page. You can configure up to 15 pages in the intercom system. The default number of pages is four (4). To configure the number of pages available, use the Intercom Configuration window, on the Options page.			
	To change setup pages using the keypad, do the following:			
	> Press 0, 8, <page>, depending on the setup page you want to view.</page>			
PHONE (0) button	The PHONE (0) button accesses the TIF DIAL or DROP menu.			
\uparrow (3) button	The \uparrow (3) button moves you backward through the menu structure or available key assignments one at a time.			
	When in the MENU mode, pressing the ↑ (3) button moves you backward through the menu option highlighted.			
\downarrow (6) button	The \downarrow (6) button moves you forward through the menu structure or available key assignments one (1) at a time.			
	When in the MENU mode, pressing the \downarrow (6) button moves you forward through the menu structure.			
INFO (9) button	The INFO (9) button displays commonly used menu items in a side scroll list. Using the \uparrow (3) and \downarrow (6) buttons, you can scroll through the list of options available. When a selection is highlighted, press the SEL button to navigate down one level in the menu structure.			
	By default, the INFO (9) list contains the following options:			
	Id, Lev2, Lstn, Name, Type, Mtx, Tone, Page, VRst, Asgn, Test, and Ver.			
	NOTE: For more details about the INFO button, see "INFO Button" on page 40.			
SEL/DIAL (#) button	The SEL/DIAL (#) button is used to select options highlighted in the menu structure.			
	The SEL/DIAL (#) button, when in TIF mode, is used to dial out from the keypanel.			

a. The numbers in parentheses represent the keypad keys.

INFO Button

The **INFO** button is used to access commonly used features and configuration options for the KP 12 CLD. These include the following:

TABLE 4. INFO Button Feature and Option Descriptions



FEATURE	DESCRIPTION
Id	Displays the port ID where the keypanel is located.
Lev 2	Displays the Level 2 key assignments on the keypanel.
Lstn	Displays the listen key assignments on the keypanel.
Name	Displays a list of current callers to the keypanel.
Туре	Displays the assignment types of all the configured keypanel keys.
Mtx	Displays the Matrix system of each key assignment.
Tone	Opens the Tone Generator menu. For more information, see "Audio Options Menu, Tone Gen" on page 93.
Page	Displays the current page visible on the keypanel.
VRst	Opens the Key Volumes Reset menu. For more information, see "Audio Options Menu, Key Volumes" on page 85.
Asgn	Displays all the other assignments on other keypanel pages not currently showing.
Test	Enables the Test Panel feature. For more information, see "Service Menu, Test Panel" on page 147.
Ver	Displays the firmware version currently loaded on the KP 12 CLD. For more information, see "Display Menu, Version" on page 100.

Intercom Key Operation

Basic Intercom Key Operation

Coupled with the traditional operation of keys, the KP 12 CLD keypanel also has an integrated **LCP** (Level Control Panel). This feature allows the user to adjust the volume for individual keys on the keypanel. Figure 8 displays the different key positions and their meanings.



FIGURE 8. KP 12 CLD Key Position Explanation

Talk/Listen Indicator

The **Talk/Listen Indicator**, shown in Figure 9, displays a visual indicator when the talk and/or listen key is active. The talk and listen states of each key are represented by an LED-like horizontal bar at the bottom (talk) and top (listen) of each key.



FIGURE 9. Talk / Listen Indicators

By default, the listen indicator is green and the talk indicator is red. You can change the colors of the indicator by using the key color window. For more information, see "Keypanel Color Window" on page 53.

Key Gain Adjustment

The **Key Gain Adjustment** is used to change the crosspoint listen gain on a specific key from the Matrix. This adjustment is automatically reflected in AZedit on the Crosspoint Gains window. (*System*|*Gains*|*Crosspoint*).

The range for this feature is -80dB to +6dB, and *Mute*.

NOTE: A listen assignment must be configured for key gain to be enabled on a keypanel key.

To change key volumes, do the following:

> Press the **keypanel key** to the right to increase the listen gain for the selected key assignment.

OR

Press the **keypanel key** to the left to decrease the listen gain for the selected key assignment. A volume status bar (and the volume level, in dB, appear on the specified key in the display.



Increase key volume

Decrease key volume

NOTE: For more information, see "Audio Options Menu, Max Volume" on page 87.

Listen Volume Adjustments

By default, the volume control adjusts the Listen Volume for the speaker (front/rear) or headset (front/rear), whichever is shown in the keypanel display.

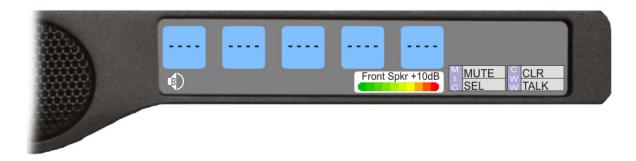
Output Volume ranges from +10dB to -48dB and Mute.

To adjust output volume level, do the following:

> Turn the **VOLUME encoder** to the right to increase the volume for the listen destination. OR

Turn the **VOLUME encoder** to the left to decrease the volume for the listen destination.

NOTE: When the MAIN VOLUME encoder is turned, the volume level bar appears in the display.



NOTE: You can save the volume adjustments to be power-up defaults using "Menu System, Save Config" on page 124.

To select a different listen destination volume control, do the following:

> Push the **VOLUME encoder** once.

The listen destination main volume focus switches to next listen destination shown, if applicable.



Aux Volume Adjustments

IMPORTANT: If no option cards are installed in the keypanel, AUX Volume adjustments are not available.

By default, the **Aux Volume** control adjusts the listen volume for the listen source, which includes Aux1-Aux3, RVON option card Channel 1, Channel 2, and Matrix IN.

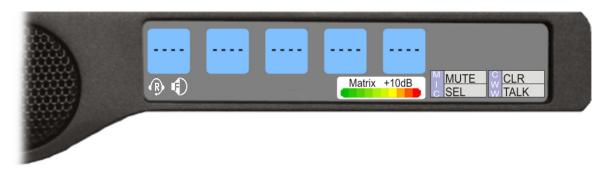
Input volume ranges from +10dB to -48dB and Mute.

To adjust listen volume level, do the following:

On the KP 12 CLD, turn the shaft encoder to the right to increase the volume for the selected input.

Turn the **shaft encoder** to the left to decrease the volume for the selected input.

NOTE: When the VOLUME encoder is turned, the volume level bar appears in the display.



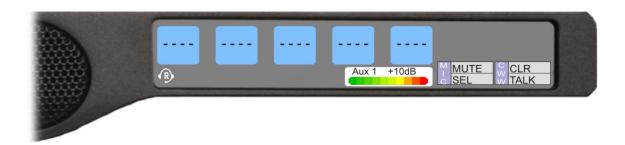
NOTE:

- You can save the volume adjustments to be power-up defaults using "Menu System, Save Config" on page 124.
- The audio sources appear in the Aux Volume menu if they are enabled (see "Mixing" on page 78). The volume encoder is enabled or disabled from the Aux/Mtx Inputs menu item (see "Service Menu, Aux/Mtx Inputs" on page 127).

To change the focus of the volume control, do the following:

> Push the **VOLUME encoder** once.

The aux volume focus switches to the next input shown, if applicable.



Operation of Intercom Keys with Auto Functions

NOTE: Assignment of keys with auto functions is described in the following programming section.

Operation of keys with auto functions, is as follows:

Talk+auto follow Talk and listen can be activated separately. The listen assignment listens to whichever

assignment is assigned to the talk key.

Talk+auto listen Talk and listen activate when talk is activated.

Talk+auto mute Listen turns off when talk is activated.

Talk+auto reciprocal Listen is always on and talk can be turned on or off.

Talk+auto table If an IFB talk key has an auto table listen assignment, talk and listen is independently

activated. The listen key listens to whatever is defined as the IFB Listen Source for the IFB

assigned to the talk key.

All Call Activating this key activates all keys to the left of it, up to, but not including another All Call

key.

Talk+DIM If a point-to-point key has the DIM function as a level 2 talk assignment, activating the key

causes the crosspoint levels to diminish for any other intercom ports currently listening to the

same destination and are in the same DIM tables.

Operation of Intercom Keys with Options

Group Option Keys

Activating the master key in a key group activates all keys in the group according to each key's individual key assignment. Activating a slave key does not affect any other keys in the group, see "Key Options Menu, Key Groups" on page 112.

Solo Key

Activating a key with the solo option causes all other keys to turn off until the solo key is turned off. For more information, see "Key Options Menu, Solo" on page 118.

Operation of Intercom Talk Keys with the Speaker DIM Setting

Activating any talk key causes the speaker or headphone volume at the keypanel to diminish by the amount specified in the Dim menu item on the Service menu, see "Audio Options Menu, Dim" on page 69.

NOTE: Do not confuse this with the Talk+DIM auto function previously described. Talk+DIM affects the speaker or

headphones on other keypanels when a particular talk key is activated on the keypanel. Speaker DIM affects the

speaker or headphone level on the keypanel when any talk key on the keypanel is activated.

Operation of Intercom Keys assigned to TIF Ports

If a keypanel key is assigned to talk on an intercom port designated as a TIF port in AZedit, placing the key in the talk position activates the KP 12 CLD dialing menu.

To designate an intercom port as a TIF port, do the following:

- 1. In AZedit, select the **port** you want to designate as a TIF port on the Keypanel/Port window.
- 2. Click Edit.
- 3. On the Advanced tab, select the **Port is TIF** check box.
- **4.** Send the **change** to the intercom system.

User Quick Select Scrolling

User Quick Select Scrolling is a fast and easy way to call or assign a point-to-point key on the KP 12 CLD. The keypad and/or keypanel sequence chosen determines how this feature is used, see "Service Menu, Keypad" on page 132.

To use the User Quick Select Scroll feature to call a user, do the following:

NOTE: If you are using the default keypad, see "Default Keypad Sequence" on page 162.

1. On the KP 12 CLD keypad, press the **up or down arrow key** to scroll through the list of point-to-point connections available.

The selected port is highlighted in white.



NOTE:

- You can also use arrow keys to page scroll through the list of ports available. Page scroll is useful when you have a large intercom system and you want to find a port quickly.
- If you are using the Classic keypad, see "Classic Keypad Sequence" on page 160.

TIP: To enable page scroll using the Classic keypad sequence, do the following:

- a. Press 5.
- b. Use the arrow keys to page scroll.Page scroll is useful when you have a large intercom system and you want to find a port quickly.
- c. Press **PGM** to exit page scroll mode.
- 2. When the port is selected, press down on the CWW key to talk to the selected port.

Graphical Call Waiting Window

Traditionally, incoming calls have been displayed on key 12 on the keypanel, flashing to indicate an incoming call. With firmware version 1.1.1, the KP 12 CLD keypanel can keep a history of the last nine (9) callers and displays them in a scrollable, graphical window next to the right-most keypanel key. The CWW displays three (3) calls at a time (only two (2) in Kanji) with a scroll arrow appearing if there are more than three (3) calls in the list.

Firmware version 1.0.1 requires MCII-e version 2.1.0 or later.

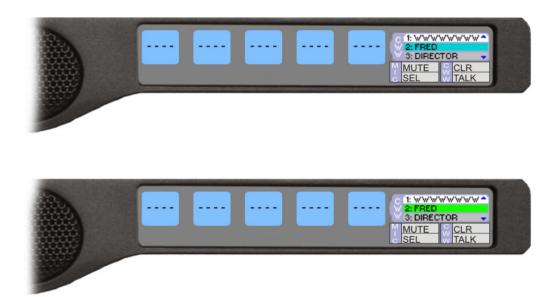


FIGURE 10. Graphical Call Waiting Window

TABLE 5. Graphical CWW Call Descriptions

Item	Description
New Call	White background
Selected Call / Not Talking	Cyan background
Selected Call / Talking	Green background
Old Call	Gray background

Graphical Call Waiting Window Operation

Use Table 5 and Figure 10 to understand the different states of the CWW.

Display or Hide the CWW

To **display the CWW**, do the following:

> On the KP 12 CLD panel, press the **CWW key** up. *The graphical call waiting window appears*.

To **hide the CWW**, do the following:

> Press the keypad CLR key.

The CWW closes.

OR

Press the MENU button.

The CWW temporarily closes and Menu mode is active. It stays hidden until menu mode is closed or times out (after one (1) minute).

OR

Rotate or press a volume shaft encoder.

The CWW temporarily closes while the volume display is shown.

OR

Enter **Page** mode (see "Standard Keypad" on page 37).

The CWW temporarily closes while page mode is active.

NOTE: If the CWW list is visible and not empty, it remains visible until hidden. If the CWW list is visible, but empty, it auto-hides after a five (5) second time-out.

Incoming Calls

When a call is received at the KP 12 CLD panel, the graphical CWW list appears on the keypanel display. Unlike the keypanel talley indicators in previous keypanel versions, the graphical CWW list appears on the keypanel display. Unlike the keypanel tally indicators in previous keypanel versions, the graphical CWW and the call flashes (tallies) rather than the CWW button.

Up to nine (9) calls can be stored in the CWW history scroll list. The most recent call is inserted at the top of the graphical CWW list (position 1) with a white background (see Figure 10). Other items in the CWW list are shifted down, as necessary. The ninth call in the list is dropped when a new call is received.



FIGURE 11. Graphical Call Waiting Window Highlighted Call

NOTE: A highlighted item in the graphical CWW cannot be shifted off the CWW list.

To answer a call on the graphical CWW, do the following:

- 1. Scroll the CWW to highlight the call you want to answer.
- 2. Press down on key 14.
- 3. Start talking to the caller.

The highlight in the CWW list turns green when talking with the caller.

4. Press **up** on key 14.

The call is ended. The background of the caller in the CWW list turns a light gray (if not highlighted).

To scroll the CWW list, do the following:

> When the CWW list is visible, press the **arrow up** or **down** button. *The highlight moves through the scroll list.*

Clearing the CWW List

To clear the CWW history, do the following:

- 1. If the CWW is not visible, press the CWW key to make it visible and the call selected.
- 2. Press the CWW key up once to remove the selected call.
- 3. Repeat step 2, as necessary.

Mute the Microphone/Speaker

Depending on the sources selected, as shown in the display, when the Mic Mute switch is pressed up, the corresponding feature is muted (shown with a mute icon overlaid on the feature icon). For Mic Mute location, see "Reference View - KP 12 CLD" on page 14.

NOTE: Figure 12 is a representation of what all the mute icons look like in the display. All muted icons cannot be viewed, as shown in Figure 20. See Table 6 on page 50 for information on when the various display icons appear relative to the configuration options specified.



FIGURE 12. All Muted Display Icons

NOTE: A flashing mute icon appears on any active mics when the mic mute key is pressed. If tone is enabled, which disables mics, the mute icon appears on any active mic, but does not flash.

Mic Select

Every mic (input) or speaker/headset (output) can be configured as Always On (or Enabled), Disabled, or Switched. Only mics, speakers, or headsets set to Switched are controlled by the MIC SEL key.

For more information, see

- "Audio Options Menu, Headset Mic" on page 80.
- "Audio Options Menu, Headset Spkr" on page 82.
- "Audio Options Menu, Panel Mic" on page 90.

TABLE 6. Source Configuration Matrix and Display icons

	ALWAYS ON/ENABLED	SWITCHED	DISABLED	ICON DISPLAYED
Panel	Mic			
	Front and Rear			<u> </u>
	Front	Rear		⊕ OR ⊕
	Rear	Front		⊕ OR ⊕
	Front		Rear	<u> </u>
	Rear		Front	<u> </u>
			Front and Rear	No icons display on the keypanel.
Head	set Mic			
	Front and Rear			B
	Front	Rear		B OR
	Rear	Front		B OR
	Front		Rear	(F)
	Rear		Front	®
			Front and Rear	No icons display on the keypanel.
Speal				
	Front and Rear			
	Front	Rear		OR C
	Rear	Front		OR R
	Front		Rear	4
	Rear		Front	©
			Front and Rear	No icons display on the keypanel.

 TABLE 6. Source Configuration Matrix and Display icons

	ALWAYS ON/ENABLED	SWITCHED	DISABLED	ICON DISPLAYED			
Headso	Headset						
	Front and Rear			(8)			
	Front	Rear		OR F			
	Rear	Front		OR OR			
	Front		Rear	(F)			
	Rear		Front	R			
			Front and Rear	No icons display on the keypanel.			

NOTE: All four (4) mics cannot be enabled at the same time. If three (3) mic sources are turned on, the rear panel mic is not available. For example, if the front panel mic, the front headset mic, and the rear headset mic are configured as Always On, the external panel mic is not available.

User Programmable Key

The **UPG** (User Programmable Key) gives you the option to assign frequently used menu items to a single key on the keypanel, eliminating the need to navigate through the menu structure. Not all menu items can be programmed to the UPG key, such as any assignment group menu, any TIF menu items, or scrolling menu items. Basically, any menu that requires context or history cannot be saved. If a menu item cannot be saved, a prompt appears in the display showing *Cannot save this menu position*.

NOTE: You can program a UPG key to activate the screen saver option on the keypanel. For more information, see "To activate the screen saver from a UPG key" on page 52.

The UPG key can also be used to activate relays. When a relay is assigned to the key, and while the keypanel is not in menu mode, pressing the UPG key activates the relay for as long as the UPG key is held down. Once the key is released, the relay becomes inactive.

To assign a menu item to a UPG key, do the following:

- 1. On the KP 12 CLD keypad, press **MENU**. *The Top Level menu appears*.
- 2. Using the up or down arrow key, **navigate** to the menu item you want to assign to either UPG 1.
- **3.** Press and hold the **UPG key** for two (2) seconds. *Menu position saved appears in the display.*

To assign a relay to a UPG key, do the following:

- **1.** On the KP 12 CLD keypad, press **MENU**. *The Top Level menu appears*.
- 2. Using the up or down arrow key, select Service.
- 3. Press SEL.

The Service menu appears.

- 4. Using the up or down arrow key, select **Local GPIO**.
- 5. Press SEL.
 - GPIO Inputs and GPIO Outputs appears in the display.
- 6. Using the up or down arrow key, select **GPIO Outputs**.
- 7. Press SEL.
 - OC Out 1, OC Out 2, Relay 1, Relay 2, and Relay 3 appear in the display.
- 8. Using the arrow keys, select the Relay 1, Relay 2, or Relay 3.
- 9. Press SEL.

Not Assigned, Talk Key, and UPG 1 appear in the display.

10. Using the up or down arrow key, select UPG 1.

The relay is assigned to the desired UPG key.

NOTE: Once a relay is programmed to the key, and the keypanel is not in menu mode, pressing the UPG key activates the assigned relay until the key is released.

To activate the screen saver from a UPG key, do the following:

- 1. On the KP 12 CLD keypad, press **MENU**.
 - The Top Level menu appears.
- 2. Using the up or down arrow key, select Service.
- 3. Press the **SEL** button.
 - The Service menu appears.
- **4.** Using the up or down arrow key, select **Scrn Saver**. *Activate, Delay and Mode appear*.

- 5. Using the arrow keys, select **Activate**.
- 6. Press SEL.

The screen saver activates on the keypanel.

7. Press and hold for two (2) seconds the **UPG key**. *Menu position saved appears in the display and the screen saver feature is assigned to the UPG key.*

NOTE: For information on clearing the UPG assignment, see "Key Options Menu, Clear" on page 111.

Keypanel Color Window

The **Keypanel Color** window in AZedit, shown in Figure 13, is used to change the color assigned to function types, key assignments, assignment groups and talk/listen indications. You can modify the colors of local intercom key assignments and function types, as well as remote intercom function type colors, giving you the flexibility to distinguish different systems through the use of color patterns.

The Keypanel Color window is only available when the following requirements are met:

• when using a CLD family keypanel (KP 32 CLD, DKP 16 CLD, KP 12 CLD, EKP 32 CLD) firmware version 1.1.1 is installed on the KP 32 CLD or v1.0.1 on the KP 12 CLD.

NOTE: Key colors are associated with assignment types, not the physical keys they are assigned to.

NAVIGATION: In AZedit, select System|Miscellaneous|Keypanel Colors.

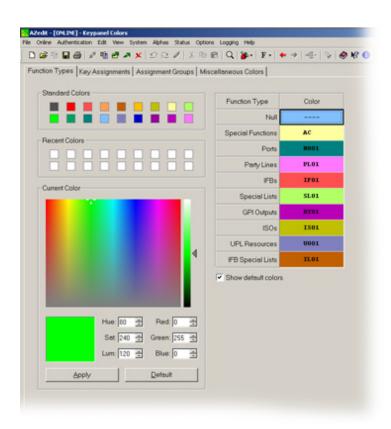


FIGURE 13. Keypanel Colors Window

Function Types Page

The **Function Types** page, shown in Figure 13, is used to change the default colors assigned to the various keypanel function types.

Select Intercom Drop Down Menu

The **Select Intercom** drop down menu is used to select the intercom system (local or remote) in which you want to change the color of the key function types.

Standard Colors Group Box

The **Standard Colors** group box displays 18 selectable colors you can use for function type color identification.

To apply a standard color to a key assignment, do the following:

- From the Select Intercom drop down menu, select the intercom system you want to change the key function types for.
- 2. From the Color column in the right pane, select the **function color box** you want to change the color for.
- **3.** From the Standard Colors group box, select the **standard color** you want to apply to the function. *The color appears in the Current Color group box.*
- 4. Click Apply.

The Function Color box in the right pane changes to the selected color.

Recent Colors Group Box

The **Recent Colors** group box displays the 18 most recently used colors.

Current Color Group Box

The **Current Color** group box displays the currently selected color, whether from the color palette, standard colors, or recent colors. Also, using the Hue, Sat, Lum, Red, Green, and/or Blue spin boxes, you can tweak the selected color to create a more unique color for the function type.

Apply Button

The **Apply** button is used to apply the color selection.

Clear Button

The Clear button is used to clear the color selection and return to the default color.

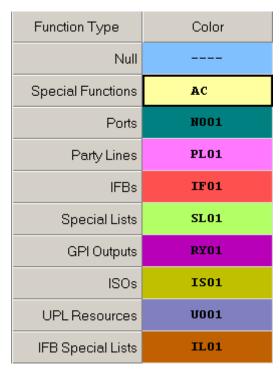


FIGURE 14. Function Type and Color Columns

Function Type Column

The Function Type column displays the different function types you can make key color changes for.

Available selections are: Null, Special Functions, Ports, Party Lines, IFBs, Special Lists, GPI Outputs, ISOs, UPL Resources, and IFB Special Lists.

Color Column

The **Color** column displays the current color assigned to the function type.

NOTE: You must select the current color box next to the function type you want to change the color for. When selected, a thick black line appears around the box.

Show Default Colors Check Box

The **Show Default Colors** check box, if selected, indicates the default colors assigned to the function types are shown. If not selected, colors are only shown for function types set to a color other than their default color.

Key Assignment Page

The **Key Assignment** page, shown in Figure 15, is used to change the colors assigned to the various assignment types. This means you can assign different colors to the individual function type resources. For example, you can change the display color for the party line assignment number 003.

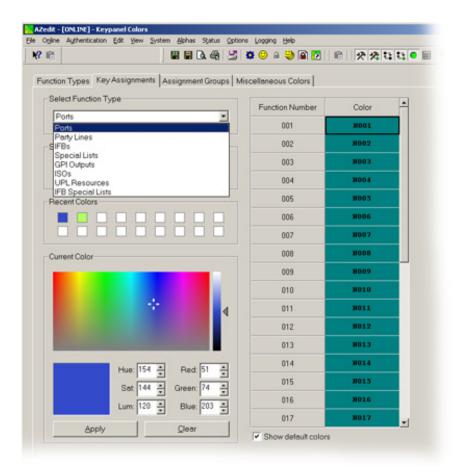


FIGURE 15. Key Assignments Page

Select Function Type Drop Down Menu

The **Select Function Type** drop down menu is used to select the function type you want to display the function number resources for.

Available selections for this field are: Ports, Party Lines, IFBs, Special Lists, GPI Outputs, ISOs, UPL Resources, and IFB Special Lists.

Function Number Column

The **Function Number** column displays the function numbers (resources available) you can modify the color of the assigned key for.

NOTE: Key colors are associated with assignment types, not the keys they are assigned to.

Color Column

The **Color** column displays the current color assigned to the function number.

NOTE: You must select the current color box next to the function number you want to change the color for. When selected, a thick black line appears around the box indicating it is selected.

Assignment Groups Page

The **Assignment Groups** page, shown in Figure 16, is used to change colors of the members of the different assignment groups.

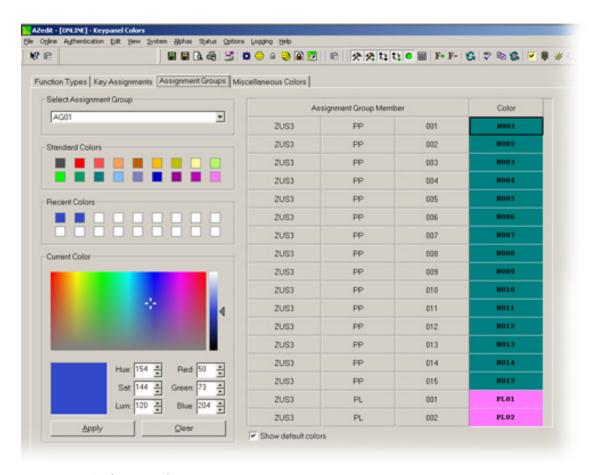


FIGURE 16. Assignments Groups Page

Select Assignment Group Drop Down Menu

The **Select Assignment Group** drop down menu is used to select the assignment group whose members you want to modify the key colors for.

Assignment Group Member Column

The **Assignment Group Member** column displays the members of the assignment group you select from the Assignment Group drop down menu. For more information, see "Select Assignment Group Drop Down Menu" on page 57.

Color Column

The Color column is used to select the assignment group member you want to modify the associated color with.

To select the color column, do the following:

> Click the **color box** next to the assignment group member.

A thick, black outline appears around the selected color box.

Miscellaneous Colors Page

The **Miscellaneous Colors** page, shown in Figure 17, is used to change the colors of the talk and listen indicators seen on the KP 12 CLD keypanel when talk and/or listen is activated.

For more information, see "Talk/Listen Indicator" on page 41.

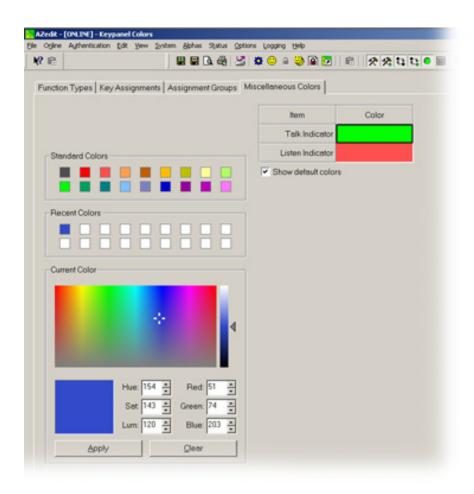


FIGURE 17. Miscellaneous Colors Page

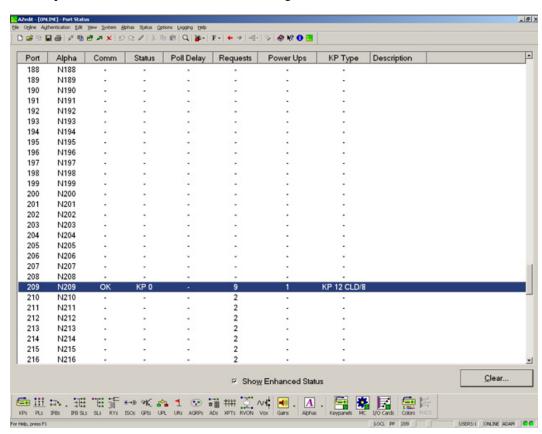
Firmware Download

NOTE: The instructions provided below are shown using the KP 12 CLD, but are applicable for all CLD family keypanels.

Download Firmware to the Color Keypanel Family From AZedit

To download firmware to the keypanel, do the following:

- 1. Open AZedit.
- **2.** From the Status menu, select **Port**. *The Port Status window appears*.
- 3. Find the **port number** where the KP 12 CLD is assigned.



60 Firmware Download KP 12 CLD

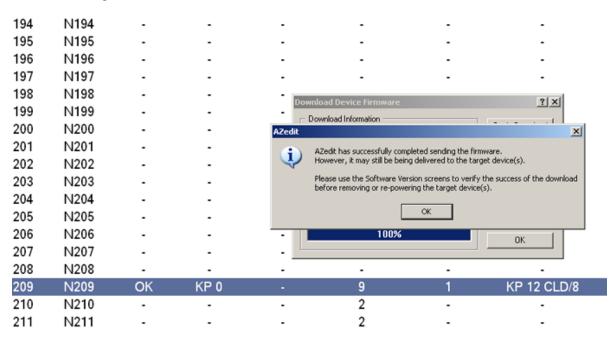
- **4.** Highlight the **Port** (keypanel) to be updated. *You may select more than one (1) at a time by holding Ctrl key down while you select.*
- **5.** Right-click the **highlighted selections** and select **Download Firmware**. *The Firmware Download window appears*.
- **6.** Using the browse button, browse to the **file** to be downloaded.
- 7. Click Open.

The Download Device Firmware window appears.



8. Click Begin Download.

The download begins.



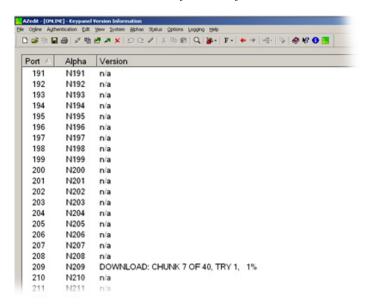
9. Click OK.

The KP 12 CLD firmware download finishes.

NOTE: The download can take up to 30 minutes to complete. Use the Keypanel Version Information window to follow the progress of the download. Also, the keypanel displays Firmware Download on the display until the download is complete.

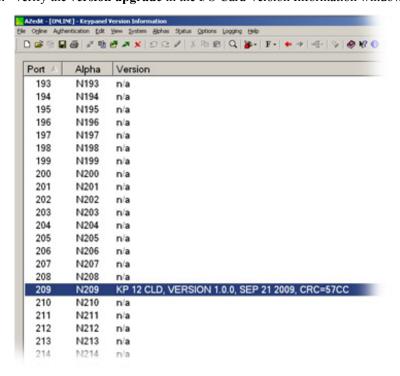
KP 12 CLD Firmware Download 61

NOTE: The KP 12 CLD resets itself once the firmware download is complete.





10. Verify the version upgrade in the I/O Card Version Information window is correct.



62 Firmware Download KP 12 CLD

Download Firmware Using the BLR Function

The **BLR** (Boot Loader) is used to upload new firmware to a keypanel with a corrupt or bad image installed. There are two (2) ways you can download firmware for the keypanel:

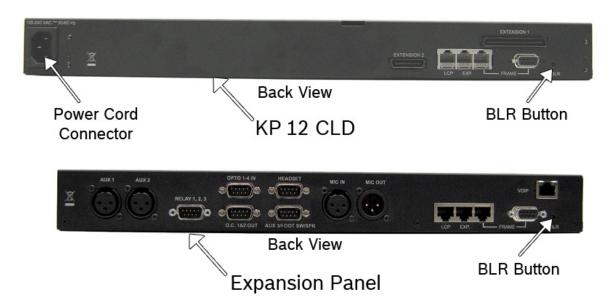
- **Option 1.** If your keypanel is not mounted in a rack, run the boot loader from the keypanel, see "Run The Boot Loader" on page 62.
- Option 2. If your keypanel is mounted in a rack, enable the boot loader on the keypanel and download the firmware using AZedit, see "Enable The Boot Loader On The Keypanel" on page 64.

Run The Boot Loader

To run the boot loader, do the following:

NOTE: If you are using an KP 12 CLD expansion panel, disconnect it from the main KP 12 CLD unit.

- 1. Power **off** the keypanel.
- 2. Verify the **KP 12 CLD** is powered off, but still connected to the FRAME.
- 3. Using a screwdriver, press the BLR button located on the back of the main KP 12 CLD unit.



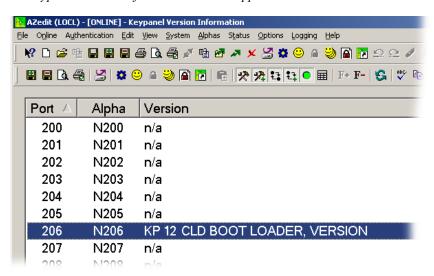
4. While the BLR button is pressed, connect the **power cord** to the keypanel. *KP 12 CLD - Boot Loader Waiting for download... appears in the display.*



5. In AZedit, from the Status menu, select **Software Versions**. *The Software Versions popup menu appears*.

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6. From the Software Versions popup menu, select **Keypanels**. *The Keypanel Version Information window appears*.



7. From the Keypanel Version Information window, find and select the specified KP 12 CLD.

NOTE: Notice the Version column is showing KP 12 CLD Bootloader Version.

- **8.** Right-click on the **KP 12 CLD**. *A popup menu appears*.
- **9.** From the popup menu, select **Download Firmware...** *The Firmware Download navigation window appears.*
- 10. Navigate to and select your firmware file (i.e., KP32CLD.hex).
- 11. Click Open.

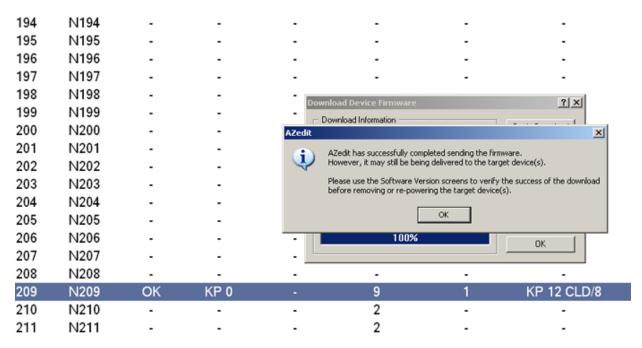
The Download Device Firmware window appears.



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12. Click Begin Download.

The Download begins and a popup message appears.



13. Click OK.

The KP 12 CLD firmware download finishes.

NOTE: The download can take up to 30 minutes to complete. Use the Keypanel Version Information window to follow the progress of the download (the number and percentage of chunks completed). Also, the firmware progression is displayed on the KP 12 CLD display until the download is complete.

IMPORTANT:

If you are downloading a new boot loader image, then when Chunk 1 is at 90%, press and hold the BLR button until the displays shows *Chunk 2*. Once Chunk 2 appears, release the BLR button. Pressing the BLR button during this time triggers the download to continue.

Enable The Boot Loader On The Keypanel

By enabling the boot loader upgrades on the keypanel, updating the firmware on the keypanel is simple. Once you have enabled the keypanel to allow the firmware to be downloaded to it, you can use AZedit to do the rest of the work.

To enable the boot loader on the keypanel, do the following:

- **1.** While pressing the **Vol** encoder, press the **MENU** button. *The main menu appears*.
- 2. Using the up or down arrow key, select **Service**.
- **3.** Press the **SEL** button. *The Service menu options appear.*



4. Using the up or down arrow key, select **Boot Code**.

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5. Press the **SEL** button.

Allow Download and Version X.X.X (where X represents the version numbers).



NOTE: If the firmware version is older than version 1.0.2 question marks (?) appear in the display.

- 6. Using the up or down arrow key, select Allow Download.
- **7.** Press the **SEL** button.

The CLD family keypanel allows firmware downloads.

NOTE: If the keypanel is powered off or loses power, the state of the Allow Download option resets to not enabled. You must reconfigure the option for it to allow new boot loader firmware to be downloaded.

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KP 12 CLD Menu System

NOTE: A menu system quick reference chart is located at "Keypanel Menu Quick Reference" on page 157.

Main Menu Access

The **Main Menu** is the top most level of the menu structure for the KP 12 CLD.

Available selections for this menu are:

Audio Options

Display

Key Assign

Key Options

OMNEO Offers (Only when OKI board is present)

RVON Offers (Only when RVON device is present)

Save Config

Service

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To access the main menu structure for the KP 12 CLD, do the following:

1. On the Keypanel keypad, press MENU.

The Information menu structure displays across the middle of the display window.



- 2. Use the arrow keys on the keypad to navigate through the menu options.
- 3. Press **SEL** to select the menu option.

 The submenu for the selection appears in the display window.

Menu System, Audio Options

Available options for this menu are:

Dim

DSP Funcs

Headset Mic

Headset Spk

Key Volumes

LCP 16 CLD

Matrix Out

Max Volume

Mic Gain

Min Volume

Output Lvl

Panel Mic

Preamp Out (Only when GPIO Option Board is present)

Sidetone

Speaker

Tone Gen

IMPORTANT:

Some menu items shown on the following pages are not present unless the GPI 12 CLD option card, RVON-2 option card and/or the OKI option card is installed.

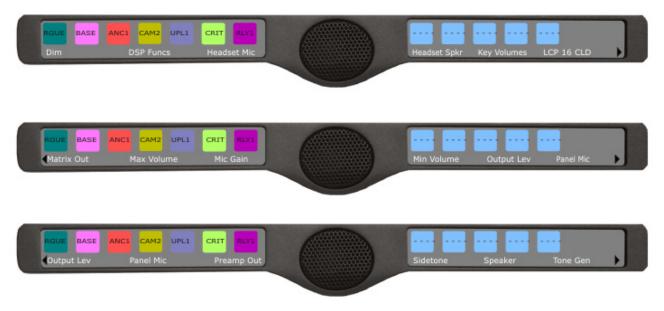


FIGURE 18. Main Audio Options Menu

Audio Options Menu, Dim

Dim allows the user to set the level of audio, in dB, heard from the front speaker, rear speaker, front headphone and rear headphone, when a talk key is activated.

By default, dim volume for speakers is set at -8dB, and for headsets it is set at 0 dB.

The range for this field is -20dB to 0 dB.

To set the dim amount for either the keypanel speaker and/or headset, do the following:

- Starting at the Audio Options|Dim menu, select **Headset** to set the dim level for headsets.
 - Using the arrow keys, select **Speaker** to set the dim level for speakers.
- 2. Press SEL.
 - Front and Rear appear in the display window.
- 3. Using the arrow keys, select **Front** to set the dim level for the front speaker/headset. OR
 - Using the arrow keys, select **Rear** to set the dim level for the rear speaker/headset.
- 4. Press SEL.
 - The Dim Amount: scroll box appears in the display window.



5. Using the arrow keys, scroll to the **Dim Volume** you desire.

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Audio Options Menu, DSP Funcs

DSP Funcs accesses the digital signal processing options for the KP 12 CLD.

Available options for this menu are: Equalization, Filters, Gating, Metering, and Mixing. Each of these options is described in detail below.

To access the DSP Func menu, do the following:

- 1. On the KP 12 CLD keypad, press the **MENU** button. *The Information menu appears in the display window.*
- 2. Using the arrow keys, select **Audio Options**.
- 3. Press SEL.
 - The Audio Options menu appears in the display window.
- 4. Using the arrow keys, select **DSP Funcs**.
- 5. Press **SEL**.

Equalization, Filters, Gating, Metering, and Mixing appears in the display window.



Equalization

Equalization allows the user to select predefined settings that modify the frequency envelope of an audio channel for the front and rear speakers. This is a 5-band equalizer. Each preset provides a different EQ to be applied to the audio sent to the speakers.

By default, None is configured.

There is no preset equalization configured.

Available selections for this menu are: None, Preset #1 (extreme low pass), Preset #2 (low pass), Preset #3 (voice band), Preset #4 (narrow high pass), and Preset #5 (high pass).

The presets are as follows:

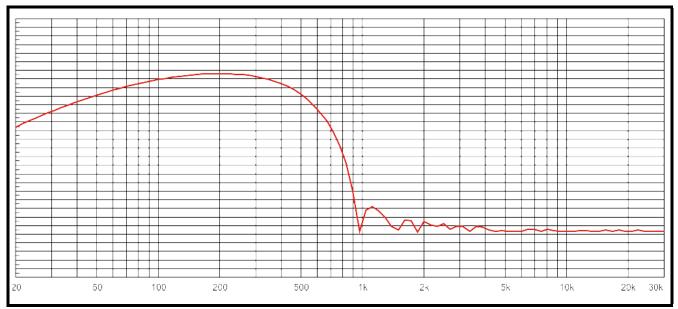


FIGURE 19. Frequency Response - Preset 1 (20Hz to 300Hz) Extreme Low Pass

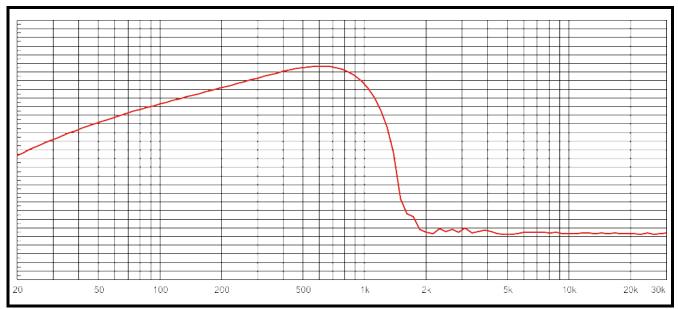


FIGURE 20. Frequency Response - Preset 2 (300Hz to 900Hz) Low Pass

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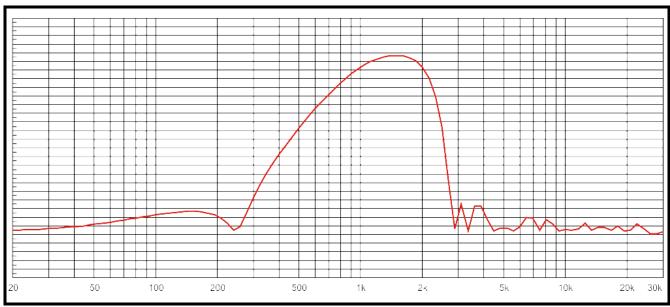


FIGURE 21. Frequency Response - Preset 3 (900Hz to 2100Hz) Voice Band

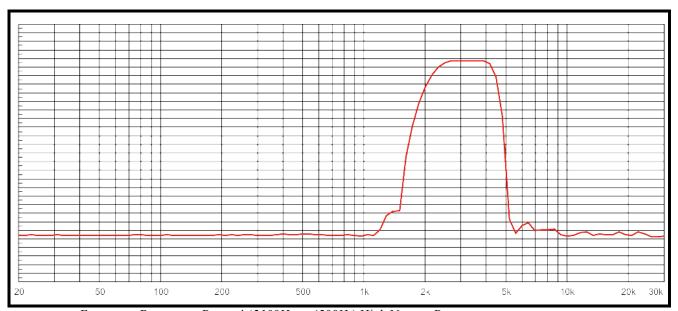


FIGURE 22. Frequency Response - Preset 4 (2100Hz to 4500Hz) High Narrow Pass

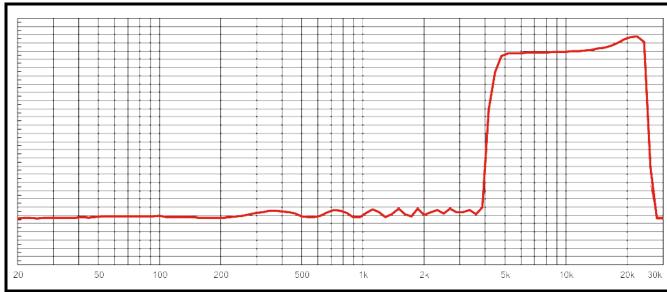


FIGURE 23. Frequency Response - Preset 5 (4500Hz to 24,000Hz) High Pass

NOTE: The EQ feature is only used for Front and Rear Speakers.

To configure a preset frequency response on the front speaker, rear left speaker, or rear right speaker, do the following:

- 1. Starting at Audio Options DSP Funcs menu, select Equalization.
- 2. Press SEL.

Front Speaker, Rear Left, and Rear Right appear in the display window.



3. Using the arrow keys, select either Front Speaker, Rear Left, or Rear Right.

NOTE: Rear Left and Rear Right only appear when the GPI 12 CLD option card is installed.

4. Press **SEL**.

None, Preset #1, Preset #2, Preset #3, Preset #4, and Preset #5 appear in the display window.



- **5.** Using the arrow keys, select the **preset** you want to enable.
- 6. Press SEL.

A blue arrow papears next to the selected option.

Filters

Filters allow you to add a 9600Hz notch filter to one (1) or more audio sources. This can be useful when the keypanel data port signal is being heard in the audio line due to cable routing problems.

By default, filters is set to *None*.

Available options for this menu are:

Aux 1 - 3 This feature is only available when the GPI 12 CLD option card is installed.

Headset Mic

Panel Mic

Rear Headset Mic This feature is only available when the GPI 12 CLD option card is installed.

Rear Panel Mic This feature is only available when the GPI 12 CLD option card is installed.

OMNEO Ch1 This feature is only available when the OKI option board is installed.

OMNEO Ch2 This feature is only available when the OKI option board is installed.
 RVON Ch1 This feature is only available when the RVON-2 option card is installed.
 RVON Ch2 This feature is only available when the RVON-2 option card is installed.

To configure filtering on the KP 12 CLD keypanel, do the following:

1. Starting at the Audio Options DSP Funcs menu, select **Filters**.

2. Press SEL.

Aux In 1, Aux In 2, Aux In 3, Front Hdst, Front Mic, Matrix In, Rear Hdst, Rear Mic, OMNEO Ch1, OMNEO Ch2 RVON Ch1, and RVON Ch2 appear in the display window.



- 3. Using the arrow keys, select Aux In 1, Aux In 2, Aux In 3, Front Hdst, Front Mic, Matrix In, Rear Hdst, Rear Mic, OMNEO Ch1, OMNEO Ch2, RVON Ch1, or RVON Ch2.
- 4. Press SEL.

None and 9600Hz appears in the display window.

5. Using the arrow keys, select either None or 9600Hz baud.



6. Press SEL.

A blue arrow papears next to the selected option.

Gating

Gating allows you to minimize or eliminate background noise problems by shutting off an audio source when the sound level drops below a certain threshold.

Available options for this menu are:

Aux 1 - 3 This feature is only available when the GPI 12 CLD option card is installed.

Headset Mic

Matrix

Panel Mic

Rear Headset Mic

This feature is only available when the GPI 12 CLD option card is installed.

This feature is only available when the GPI 12 CLD option card is installed.

OMNEO Ch1

This feature is only available when the OKI option board is installed.

OMNEO Ch2

This feature is only available when the OKI option board is installed.

RVON Ch1 This feature is only available when the RVON-2 option card is installed.

RVON Ch2 This feature is only available when the RVON-2 option card is installed.

The range is for this field is -17dB to 18dB and Disabled.

By default, the gating threshold is set to Disabled.

NOTE: 0 dB threshold is 12dB below nominal. Nominal inputs are as follows:

Aux In 1-3 8dBu Headset Mic -50dBu Matrix In 8dBu -42.5dBu Panel Mic OMNEO Ch1 8dBuOMNEO Ch2 8dBuRVON Ch1 8dBuRVON Ch2 8dBu

To configure gating on the KP 12 CLD keypanel, do the following:

- 1. Starting at the Audio Options DSP Funcs menu, select **Gating**.
- 2. Press SEL.

Aux In 1, Aux In 2, Aux In 3, Front Hdst, Front Mic, Matrix In, Rear Hdst, Rear Mic, OMNEO Ch1, OMNEO Ch2, RVON Ch1, and RVON Ch2 appear in the display window.



3. Using the arrow keys, select Aux In 1, Aux In 2, Aux In 3, Front Hdst, Front Mic, Matrix In, Rear Hdst, Rear Mic, OMNEO Ch1, OMNEO Ch2, RVON Ch1, or RVON Ch2.

4. Press SEL.

The Threshold scroll box appears in the display window.



- 5. Using the arrow keys, select the **threshold** you want to set for the option selected.
- 6. Press SEL.

A blue arrow appears next to the selected option.

Metering

Metering allows you to monitor an audio source connected to the keypanel. The energy of the incoming audio is split into five (5) bands and displayed on the left side of the keypanel, when enabled.

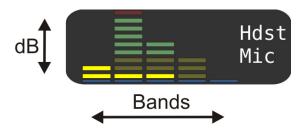


FIGURE 24. Metering Explanation

The dB display range is from 28dB below nominal to 8dB above nominal.

Available options for this menu are:

Band 1	100Hz to 400Hz
Band 2	400Hz to 800Hz
Band 3	800Hz to 1.6KHz
Band 4	1.6KHz to 3.2KHz
Band 5	3.2KHz to 15KHz

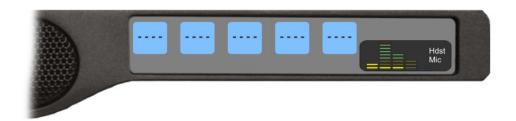


FIGURE 25. Metering Bands display

By default, None is configured for metering.

NOTE: Only one (1) channel can be metered at a time.

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You can enable metering on:

Aux In 1 - 3 This feature is only available when the GPI 12 CLD option card is installed. Front Headset Front Mic Matrix In Rear Headset This feature is only available when the GPI 12 CLD option card is installed. Rear Mic This feature is only available when the GPI 12 CLD option card is installed. OMNEO Ch1 This feature is only available when the OKI option board is installed. OMNEO Ch2 This feature is only available when the OKI option board is installed. RVON Ch1 This feature is only available when the RVON-2 option card is installed. RVON Ch2 This feature is only available when the RVON-2 option card is installed.

To enable metering on the KP 12 CLD, do the following:

- 1. Starting at the Audio Options DSP Funcs menu, select **Metering**.
- 2. Press SEL.

Aux In 1, Aux In 2, Aux In 3, Matrix In, None, Front Hdst, Front Mic, Rear Hdst, Rear Mic, OMNEO Ch1, OMNEO Ch2, RVON Ch1, or RVON Ch2 appear in the display window.



- 3. Using the arrow keys, select Aux In 1, Aux In 2, Aux In 3, Matrix In, None, Front Hdst, Front Mic, Rear Hdst, Rear Mic, OMNEO Ch1, OMNEO Ch2, RVON Ch1, or RVON Ch2.
- 4. Press SEL.

A blue arrow appears next to the selected option.

Mixing

Mixing allows you to route selected audio signals to the following destinations:

- To Matrix
- Front Left Headphone
- Front Right Headphone
- Front Speaker
- Mic Pre Out
- OMNEO Ch1 OUT
- OMNEO Ch2 OUT

- Rear Left Speaker
- Rear Right Speaker
- Rear Left Headphone
- Rear Right Headphone
- RVON Ch1 OUT
- RVON Ch2 OUT

By default, the microphone signal is routed to the matrix. The matrix signal is routed to the speaker and to the left and right headphones. These defaults can be changed via the Audio Options sub-menus for Panel Mic, Headset Mic, Speaker, and Headset Speaker.

Available options for this menu are:

Aux l-3 This feature is only available when the GPI 12 CLD option card is installed.

Headset Mic

Matrix

Panel Mic

OMNEO Ch1 This feature is only available when the OKI option board is installed.

OMNEO Ch2 This feature is only available when the OKI option board is installed.

Rear Headset Mic

This feature is only available when the GPI 12 CLD option card is installed.

Rear Panel Mic

This feature is only available when the GPI 12 CLD option card is installed.

RVON Ch1 IN

This feature is only available when the RVON-2 option card is installed.

RVON Ch2 IN

This feature is only available when the RVON-2 option card is installed.

TABLE 7. Resources Table

SOURCE	Front Pane Mic	Matrix Audio In	Front Headset Mic	Rear Headset Mic	Rear Panel Mic	Aux IN 1	Aux IN 2	Aux IN 3	Option Card ^a Ch1 IN	Option Card Ch2 IN
Matrix OUT	X	X	X	X	X	X	X	X	X	X
Front Speakers	X	X	X	X	X	X	X	X		X
Front Headset Left	X	X	X	X	X	X	X	X	X	X
Front Headset Right	X	X	X	X	X	X	X	X	X	X
Rear Headset Left	X	X	X	X	X	X	X	X	X	X
Rear Headset Right	X	X	X	X	X	X	X	X	X	X
Rear Speaker Left	X	X	X	X	X	X	X	X	X	X
Rear Speaker Right	X	X	X	X	X	X	X	X	X	X
Mic OUT	X	X	X	X	X	X	X	X	X	X
Option Card Ch1 OUT	X	X	X	X	X	X	X	X	X	X
Option Card Ch2 OUT	X	X	X	X	X	X	X	X	X	X

a. Option cards refer to the RVON-2 and OKI-2.

NOTE: If all resources are being used, the Rear Panel Mic is not available.

To configure mixing on the KP 12 CLD, do the following:

- 1. Starting at the Audio Options|DSP Funcs menu, select **Mixing**.
- 2. Press SEL.

Front Hdst, Front Spkr, OMNEO Ch1, OMNEO Ch2, Preamp Out, Rear Hdst, Rear Spkr, RVON Ch1, RVON Ch2 and To Matrix appear in the display window.



3. Using the arrow keys, select the **Output** you want to mix to.

4. Press SEL.

Aux In 1, Aux In 2, Aux In 3, Front Hdst, Front Mic, Matrix In, OMNEO Ch1, OMNEO Ch2, Rear Hdst, Rear Mic, RVON Ch1, and RVON Ch2 appear in the display window.



- 5. Using the arrow keys, select the **Input** you want to mix to the selected output.
- 6. Press SEL.
- 7. Press **CLR** to exit menu mode.

Audio Options Menu, Headset Mic

The Headset Mic option allows the user to configure where audio is coming from and the type of microphone being used.

By default, if no headset is detected, the headset mic input is muted to avoid allowing noise to get to the system. This feature can be disabled.

NOTE: When a GPI 12 CLD option card is installed, Front and Rear options are displayed.

Available selections for the auto-mute menu are:

Disabled

Enabled

Available selections for the mode menu are:

Disabled

Enabled

Switched (default)

When set to switched, the state of the Headset Mic is controlled by the Mic Sel key.

Available selections for the type menu are:

Auto-Detect (default)

The keypanel automatically detects the type of microphone connected.

Dynamic

Electret

To configure the Headset Mic auto-mute, do the following:

1. Starting at the Audio Options|Headset Mic menu, select either **Front** or **Rear**.



2. Press SEL.

Auto-mute, Mode and Type appear in the display window.

- 3. Using the arrow keys, select **Auto-Mute**.
- 4. Press SEL.

Disabled and Enabled appear in the display window.

5. Using the arrow keys, select **Disable** to stop auto-mute. OR

Using the arrow keys, select **Enable** to activate auto-mute.

6. Press SEL.

A blue arrow appears next to the selected option.

To configure the Headset Mic mode, do the following:

1. Starting at the Audio Options|Headset Mic menu, select either **Front** or **Rear**.



2. Press SEL.

Auto-mute, Mode and Type appear in the display window.

- 3. Using the arrow keys, select **Mode**.
- 4. Press SEL.

Disabled, Enabled, and Switched appear in the display window.



- 5. Using the arrow keys, select the **mode**.
- 6. Press SEL.

A blue arrow appears next to the selected option.

To configure the Headset Mic type, do the following:

1. Starting from the Audio Options|Headset Mic menu, select either Front or Rear.



2. Press SEL.

Auto-mute, Mode and Type appear in the display window.

- 3. Using the arrow keys, select **Type**.
- 4. Press SEL.

Auto-Detect, Dynamic, and Electret appear in the display window.



- 5. Using the arrow keys, select the **Auto-Detect**, **Dynamic**, or **Electret**.
- 6. Press SEL.

A blue arrow appears next to the selected option.

Audio Options Menu, Headset Spkr

The **Headset Spkr** menu option is used to control the headset detection functions: auto-transfer, which is used to detect if a headset is present and mode, which determines when and where audio is heard. Also from this menu, the Main shaft encoder is defined how to control the volume for the front and rear channels.

NOTE: When a GPI 12 CLD option card is installed, Front and Rear options are displayed.

Available selections for the auto-transfer menu are:

Disabled

Enabled

When enabled, the keypanel automatically enters or leaves headset mode when a headset is plugged in or removed.

Available selections for the Mode menu are:

Both

Left Channel

Right Channel

Available selections for the mode menu are:

Always On (default)

Disabled

Switched

When set to Switched, the state of the Headset Spkr is controlled by the Mic Sel key.

To configure the Headset Spkr mode, do the following:

1. Starting from the Audio Options|Headset Spkr, select either **Front** or **Rear**.



2. Press SEL.

Auto-Transfer and Mode appear in the display window.

- 3. Using the arrow keys, select **Mode**.
- 4. Press SEL.

Both, Left Chan, and Right Chan appear in the display window.

5. Press SEL.

Always On, Disabled, and Switched appear in the display window.



- **6.** Using the arrow keys, select the **mode**.
- 7. Press SEL.

A blue arrow appears next to the selected option.

To configure the Headset Spkr Auto-Transfer function, do the following:

1. Starting from the Audio Options|Headset Spkr menu, select either Front or Rear.



2. Press SEL.

Auto-Transfer and Mode appear in the display window.



- 3. Using the arrow keys, select **Auto-Transfer**.
- 4. Press SEL.

Disabled and Enabled appear in the display window.

- 5. Using the arrow keys, select **Disabled** or **Enabled**.
- 6. Press SEL.

A blue arrow appears next to the selected option.

Volume Controls

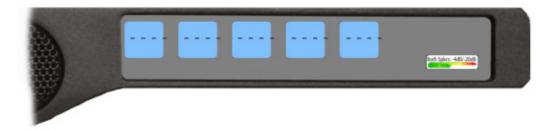
Available selections for the Volume Control menu are:

NOTE: For more information on Ganged Volume, see "Service Menu, Ganged Vols" on page 130.

Ganged The volume controls are tied to each other, only one (1) know is turned to adjust volume controls.

Individual The volume controls are separate to each other.

NOTE: If you gang speakers and/or headset volumes, you see a split volume bar. The front speaker or headset is the top portion of the bar, while the bottom portion of the bar is the rear speaker or headset volume.



To define how the Main shaft encoder controls the volume for the front and rear channels, do the following:

1. Starting from the Audio Options|Headset Spkr menu, select Volume Control.



2. Press SEL.

Ganged and Individual appear in the display window.



- 3. Using the arrow keys, select either **Ganged** or **Individual**.
- 4. Press SEL.

A blue arrow appears next to the selected option.

Audio Options Menu, Key Volumes

Key Volumes menu is used to enable or disable the adjusting of crosspoint listen gains. If Key Volumes are enabled, the user can adjust the listen gains for Matrix crosspoints from the KP 12 CLD.

Also from this menu item you can reset all the modified key gains back to their default settings.

NOTE: Key Volumes are either enabled for the entire keypanel or disabled for the entire keypanel. This setting cannot be set on a per key basis.

To enable key volumes on the KP 12 CLD, do the following:

1. Starting from the Audio Options Key Volumes menu, select **Adjust**.



- 2. Press SEL.
 - Disabled and Enabled appear in the display window.
- 3. Using the arrow keys, select **Enabled**.



4. Press SEL.

Key volume adjustments by users are allowed.

To reset all key gains to their default value, do the following:

1. Starting at the Audio Options|Key Volumes menu, select **Reset**.



- 2. Press SEL.
 - Cancel and Do Reset appear in the display window.
- 3. Using the arrow keys, select **Do Reset**.
- 4. Press SEL.

Volumes Reset appears in the display window.



Audio Options Menu, LCP 16 CLD

The **LCP 16 CLD Level Control Panel** is connected to a KP CLD keypanel. The LCP 16 CLD panel, when connected to a CLD keypanel is only used to adjust input and output volumes. You may connect only one (1) LCP panel to a CLD keypanel.

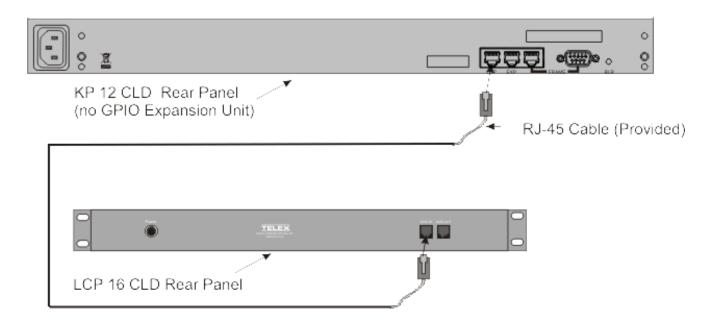


FIGURE 26. Hardware Setup for KP 12 CLD and LCP 16 CLD

CAUTION: Do not connect a KP 12 CLD power supply to the LCP 16 CLD. Doing so could cause damage to the unit.

NOTE: The LCP 16 CLD menu option in both the Audio Options and Display menus is always present whether an LCP 16 CLD unit is connected to the KP CLD unit or not.

To configure an LCP 16 CLD via the KP CLD, do the following:

- 1. Starting at the Audio Options|LCP 16 CLD, select the **encoder knob number** you want to configure.
- 2. Press SEL.
 - Inputs, Outputs, Sidetone and Unassigned appears.
- **3.** Using the page down key, scroll until **Inputs** appears, to configure the input levels.

OR

Using the page down key, scroll until **Outputs** appears, to configure the output levels.

OR

Using the page down key, scroll until **Sidetone** appears, to configure the sidetone levels.

OR

Using the page down key, scroll until **Unassigned** appears, to clear any configurations on a per key basis.

4. Press SEL.

The LCP 16 CLD configuration is changed.

Audio Options Menu, Matrix Out

Matrix Out allows the user to select between Normal or Hot Mic. In the Normal setting, audio from the selected active mic (based on the mic select feature, see "Audio Options Menu, Panel Mic" on page 90) goes out to the Matrix when any talk key is latched. In the Hot Mic setting, audio from the mic goes out to the Matrix without regard to the talk key state.

By default, Matrix Out is set to Normal operation.

To configure the Matrix Out, do the following:

1. Starting at the Audio Options Matrix Out, select **Hot Mic** or **Normal**.



2. Press SEL.

A blue arrow appears next to the selected option.

NOTE: When Hot Mic is enabled, the Hot Mic licon appears in the display window.



Audio Options Menu, Max Volume

Max Volume sets the maximum level, in dB, of volume the user can configure the headset for. This feature prevents incoming audio from being too loud.

The range for this field is -48dB to 10dB, and Mute. The default setting is 10dB.

To set the max volume for the headset, do the following:

- 1. Starting at the Audio Options Max Volume menu, select **Headset**.
- 2. Press SEL.

Front and Rear appear in the display window.

3. Using the arrow keys, select **Front** to set the maximum volume for the front headset. OR

Using the arrow keys, select **Rear** to set the maximum volume for the rear headset.

4. Press the **SEL** button.

The Max Volume: scroll box appears in the display window.



5. Using the arrow keys, scroll to the **maximum volume** you desire.

Audio Options Menu, Mic Gain

Mic Gain allows the user to adjust the mic gain level, in dB, and enable or disable mic gain on the keypanel.

The range for this field is -20dB to 10dB. By default, it is set to 0 dB.

To set the mic gain level, do the following:

1. Starting at the Audio Options Mic Gain menu, select Level.



2. Press SEL.

Front Hdst, Front Mic, Rear Hdst, and Rear Mic appear in the display window.



- 3. Using the arrow keys, select the **source to configure mic gain**.
- 4. Press SEL.

The mic gain scroll box appears in the display window.

5. Using the arrow keys, scroll to the **mic gain level** (in dB) you want.

To enable/disable the mic gain level adjustment from the front mic select switch for the KP 12 CLD, do the following:

1. Starting at the Audio Options Mic Gain menu, select **Adjust**.



2. Press SEL.

Disabled (default), Front Hdst, Front Mic, Rear Hdst, and Rear Mic appear in the display window.



- 3. Using the arrow keys, select the **resource** you want to configure.
- 4. Press SEL.

Disabled and Enabled appear in the display window.

5. Using the arrow keys, select **Disabled** to prohibit mic gain adjustments.

OR

Using the arrow keys, select **Enabled** to allow mic gain adjustments.

A blue arrow appears next to the selected option.

Audio Options Menu, Min Volume

Min Volume allows the user to set the minimum volume level, in dB, for both the keypanel speaker and/or the headset speaker. This is the minimum volume level available on the volume control, located on the front of the KP 12 CLD.

The range for this field is -48dB to 10dB and Mute. By default, Min Volume is set to Mute.

To set the min volume for either the keypanel speaker and/or headset speaker, do the following:

- 1. Starting at the Audio Options|Min Volume menu, select **Headset** to set the minimum volume for headsets. OR
 - Using the arrow keys, select **Speaker** to set the minimum volume for speakers.
- 2. Press SEL.
 - Front and Rear appear in the display window.
- 3. Using the arrow keys, select **Front** to set the minimum volume for the front speaker/headset. OR
 - Using the arrow keys, select **Rear** to set the minimum volume for the rear speaker/headset.
- 4. Press SEL.
 - The Min Volume: scroll box appears in the display window.



5. Using the arrow keys, scroll to the **minimum volume** you desire.

Audio Options Menu, Outp Level

Output Level allows the user to adjust the nominal audio output level to the matrix.

The range for this field is 0 dB to +8dB. By default, the Output Level is set to 8dB.

To set the output level, do the following:

1. Starting at the Audio Options|Outp Level menu, select the **Output Level** you want to configure.



2. Press SEL.

Audio Options Menu, Panel Mic

The **Panel Mic** menu option is used to configure how the panel mic operates. When a GPI 12 CLD option card is installed, Front and Rear options are displayed.

Available options for this field are:

Disabled Enabled

Switched (default) when enabled, the state of the Panel Mic is controlled by the Mic Sel key.

To **configure the Panel Mic**, do the following:

1. Starting at the Audio Options|Panel Mic menu, select either Front or Rear.



NOTE: All four (4) mics cannot be enabled at the same time. If three (3) mic sources are turned on, the rear panel mic is not available. For example, if the front panel mic, the front headset mic, and the rear

headset mic are *Enabled*, the rear panel mic is not available.

2. Press SEL.

Disabled, Enabled, and Switched appears in the display window.



- 3. Using the arrow keys, select the **mode**.
- 4. Press SEL.

A blue arrow appears next to the selected option.

Audio Options Menu, Preamp Out

Preamp Out allows the user to choose how audio is routed to the Preamp Output connector.

NOTE: The GPI 12 CLD option card must be installed for the Preamp Out menu item to appear.

The selections available are:

Disabled When Disabled is selected, keypanel audio is isolated from the preamp output connector.

Hot Mic When Hot Mic is selected, audio is always available at the preamp output connector.

Switched (default) When Switched is selected, keypanel audio is routed to the preamp output connector when a talk

key is latched.

To configure the preamp output connector, do the following:

- 1. Starting at the Audio Options|Preamp Out menu, select the **Preamp Out option** you want.
- 2. Press SEL

Disabled, Hot Mic, and Switched appears in the display window.



- 3. Using the arrow keys, select **Preamp Out option** you want.
- 4. Press SEL.

Audio Options Menu, Sidetone

Sidetone indicates the level, in dB, at which the users own voice is heard. Most people prefer some amount of sidetone to overcome the muffled sensation when talking, especially when wearing a dual-sided headset.

The range for this field is -35dB to 0 dB. By default, the sidetone level is set at -20dB.

You can also configure the mode sidetone operates.

The available options for the sidetone mode are:

Always On

Disabled

Switched (default)

When set to switched, the user's voice is heard only when the talk key is activated.

To set the sidetone level, do the following:

- 1. Starting at the Audio Options|Sidetone menu, select Level.
- 2. Press SEL.

The Sidetone Level adjustment appears in the display window. By default, sidetone is set to -20dB.



3. Use the scroll arrows \bigcirc to adjust the **sidetone level**.

To set the sidetone mode, do the following:

- 1. Starting at the Audio Options|Sidetone menu, select **Mode**.
- 2 Press SEL

Always On, Disabled, and Switched appear in the display window. By default, Switched is selected.



- 3. Using the arrow keys, select the **mode** to operate sidetone.
- 4. Press SEL.

NOTE: Run **Save Config** to save the modification. For more information, see "Menu System, Save Config" on page 124.

Audio Options Menu, Speaker

The **Speaker** menu option is used to configure how the speaker operates. When a GPI 12 CLD option card is installed, Front and Rear options are displayed.

Available options for this menu are:

Always On

Disabled

Switched (default) when enabled, the state of the Speaker is determined by the Mic Sel key.

To configure the speaker, do the following:

1. Starting at the Audio Options|Speaker menu, select either **Front** or **Rear**.



2. Press SEL.

Always On, Disabled, and Switched appears in the display window.



- 3. Using the arrow keys, select the **option** you want to configure.
- 4. Press SEL.

A blue arrow appears next to the selected option.

Audio Options Menu, Tone Gen

Tone Gen (tone generation) allows the user to turn the tone generator on or off. The tone generator is used to check the audio path from the keypanel to the matrix.

Available selections for this menu are:

500Hz Tone (default) 1kHz Tone

The selected tone can be activated from either the menu or from the keypad.

To enable/disable the tone generator, do the following:

> Starting at the Audio Options|Tone Gen menu, select **Tone Off** to disable the tone generator.

Using the arrow keys, select **Tone On** to enable the tone generator.

A blue arrow papears next to the selected option.



To set the frequency level for the tone, do the following:

1. Starting at the Audio Options|Tone Gen menu, select Frequency.



2. Press SEL.

1kHz Tone and 500Hz Tone appears in the display window.



3. Using the arrow keys, select **1KHz Tone**.

OR

Using the arrow keys, select 500Hz Tone.

A blue arrow appears next to the selected option and the 500Hz or 1KHz icon displays in the display window if tone is enabled and the menu is cleared.

Menu System, Display

Use this menu to display information about the keypanel configuration.

The information available for display is as follows:

Assign Type

Auto Dial

Chans On

Chime

Exclusive

Key Groups

Key List

LCP 16 CLD

Level 2 (Key Assignments)

Listen (Assignments)

Matrix

Panel ID

Solo Key

(Keypanel Firmware) Version



FIGURE 27. Main Display Menu

Display Menu, Assign Type

Assign Type displays the talk level 1 assignment types for all keys.

To display the types of key assignments assigned to the KP 12 CLD, do the following:

- 1. On the KP 12 CLD keypad, press **MENU**. *The Information menu appears in the display window.*
- 2. Verify **Display** is selected.
- 3. Press SEL.

The Display submenu appears in the display window.

- 4. Verify **Assign Type** is selected.
- 5. Press SEL.

The assignment types appear on the appropriate key displays.



Display Menu, Auto Dial

Auto Dial displays the keypanel keys assigned 1-touch auto dial numbers. 1-Touch auto dial numbers are configured using the locally stored numbers on the keypanel. Once a 1-touch auto dial key is configured, press the configured key to cause the TIF to go off-hook and auto dial the selected number.

To display the auto dial numbers assigned to the keypanel keys, do the following:

- 1. Starting at the Display menu, select **Auto Dial**.
- 2. Press SEL.

1-Touch Auto Dial appears in the display window and the key assigned to the number appears with a red bar.



Display Menu, Chans On

Chans On displays an alpha list of all intercom ports with talk crosspoints currently closed to this keypanel. Chans On is typically used to locate an open mic or other open audio source that needs to be shut off. The most likely cause is a talk key that has been left on at some keypanel. In this case, use the $\downarrow\downarrow$ and $\uparrow\uparrow$ keys to quickly page-scroll through the list of names. Press the call waiting window key to ask the person at the other end of the connection to turn off the talk key.

To display the Chans On information, do the following:

- 1. Starting at the Display menu, select Chans On.
- 2. Press SEL.

The Chans On display appears showing the channels that are on.



Display Menu, Chime

Chime displays all keys with the chime option enabled on them in red. For more information on the Chime option, see "Key Options Menu, Chime" on page 110.

To display keys with Chime enabled, do the following:

- 1. Starting at the Display menu, select Chime.
- 2. Press SEL.

The Chime display appears showing chime enabled keys in red.



Display Menu, Exclusive

Exclusive displays all keys with the exclusive key assignment. For more information on the exclusive assignment, see "Key Options Menu, Exclusive" on page 111.

To display the Exclusive Keys information, do the following:

- 1. Starting at the Display menu, select Exclusive.
- 2. Press SEL.

The Exclusive display appears showing exclusive keys in red.



NOTE: You can assign more than one (1) Exclusive key.

Display Menu, Key Groups

Key Groups displays a scroll list of groups available on the keypanel.

To display the different groups available, do the following:

- 1. Starting at the Display menu, select **Key Groups**.
- 2. Press SEL.
 - Group 1, Group 2, Group 3, and Group 4 appear in the display window.
- 3. Using the arrow keys, select the **Group** you want to display.
- 4. Press SEL.

The Master key appears in red, while the slave keys appear in green.



Display Menu, Key List

Key List displays and allows users to see all the other assignments on other keypanel pages not currently showing in the keypanel display.

To display the Key List information, do the following:

- 1. Starting at the Display menu, select **Key List**.
- 2. Press SEL.

The Key List displays all the assignments not currently displayed on the keypanel.



Display Menu, LCP 16 CLD

LCP 16 CLD displays the LCP 16 CLD assignments for the keypanel key.

To display the LCP 16 CLD assignments on the KP CLD, do the following:

- 1. Starting at the Display menu, select LCP 16 CLD.
- 2. Press SEL.

The LCP 16 CLD assignments appear under the corresponding keys in the KP CLD display panel.

NOTE: If an LCP 16 CLD is not detected by the KP CLD keypanel, the message LCP 16 CLD Assigns (LCP Not Detected).

Display Menu, Level 2

Level 2 displays the talk level 2 assignments for any key that has talk level 2 assignments. Talk level 2 assignments are used to call two (2) users at one (1) time or to assign an auto function, activated when the Level 1 assignment is used.

To display the Level 2 Talk information, do the following:

- 1. Starting at the Display menu, select Level 2.
- 2. Press SEL.

The Level 2 display appears showing the level 2 talk keys.



Display Menu, Listen

Listen displays the listen assignments for all keys, if applicable.

To display the Level 2 Talk information, do the following:

- 1. Starting at the Display menu, select **Listen**.
- 2. Press SEL.

The Listen display appears showing the listen assignments on the specified keys.



Display Menu, Matrix

Matrix displays the intercom system name for all talk level 1 key assignments. The local intercom is represented by a green

key, while a remote intercom is represented by a red key. If a key assignment is not present on a key, an unassigned key displays.

In non-trunked intercom systems, the intercom system name is always LOCL (local). In trunked systems, intercom system names are created in Trunk Edit (*Intercoms*|*Names*).

To display the matrix intercom system name, do the following:

- 1. Starting at the Display menu, select **Matrix**.
- 2. Press SEL.

The Matrix display appears showing the matrix intercom system.



Display Menu, Panel ID

Panel ID displays the port number to which the keypanel is connected (used only with an AIO-8 card). The calculation is based on the data group to which the keypanel is connected. If the address switch is incorrectly set, the wrong panel ID displays. There is no need for this address if an AIO-16 card is used. Address setting is automatically generated when an AIO-16 card is used.

NOTE: When the keypanel is not scroll enabled, the Panel ID displays only the port number in the panel display window. When the keypanel is scroll enabled, the port number and port alpha are displayed.

To display the panel ID, do the following:

- 1. Starting at the Display menu, select **Panel ID**.
- 2. Press SEL

The Panel ID display appears showing the port number and alpha (if applicable) for the keypanel.



Display Menu, Solo

Solo displays all keys with the solo assignment. For more information on the solo assignment, see "Key Options Menu, Latching" on page 113.

To display the Solo Key information, do the following:

- 1. Starting at the Display menu, select **Solo**.
- 2. Press SEL.

The Solo display appears showing solo keys in red.

NOTE: You may only assign one (1) solo key at a time.



Display Menu, Version

Version displays the firmware version currently running on the keypanel.

NOTE: For firmware upgrades, contact customer service. The KP 12 CLD firmware can be upgraded through AZedit.

To display the firmware version currently loaded on the keypanel, do the following:

- 1. Starting at the Display menu, select **Version**.
- 2. Press SEL.

The Version display appears showing firmware version for the keypanel.



Menu System, Key Assign Menu

The **Key Assign** menu, shown in Figure 28, is used to assign intercom key assignments and auto functions to keypanel keys.

Available options for this menu are:

Matrix (only in trunked systems)

Pt-to-Pt

Party Line

IFB

Special List

Sys Relay

Camera ISO

UPL

IFSL

Auto Func



FIGURE 28. Main Key Assign Menu

To access the key assign menu options, do the following:

- 1. Starting at the Key Assign menu, select the **key assignment** you want to assign.
- 2. Press SEL.

A scroll list of available ports appears in the display window.

Key Assign Menu, Matrix (Trunked System Only)

Matrix only appears for trunked intercom systems. You must select a remote intercom matrix before assigning intercom keys to destinations in that matrix. You do not need to select matrix to assign keys to destinations in your own matrix. Also, you do not need to select matrix when assigning an auto function key to a matrix.

To assign a remote assignment to the KP 12 CLD, do the following:

1. Starting at the KeyAssign|Matrix menu, select a **remote intercom**.



- 2. Press SEL.
 - A scroll list of available ports appears in the display window.
- 3. Using the arrow keys, select the **port** you want to assign to the keypanel key.



- 4. Press SEL.
 - A list of auto-functions appear in the display window.
- 5. Using the arrow keys, select the **auto-function** you want to assign to the Pt-to-Pt assignment, if applicable.



- 6. Press SEL.
 - Tap Key appears in the display window.
- **7.** Press down on the **keypanel key position** where you want the Pt-to-Pt assignment to appear. *The key color changes to teal and the alpha name appears on the key.*

Key Assign Menu, Pt-to-Pt

Pt-to-Pt assigns a key that talks or listens to a another intercom port.

NOTE: Some Pt-to-Pt destinations may be non-keypanel devices that cannot activate talk and listen paths. Therefore, if you want full communication, you may need to assign both talk and listen on the key. For more information, see "Key Assign Menu, Auto Func" on page 107.

To assign Pt-to-Pt to the keypanel key, do the following:

1. Starting at the KeyAssign|Pt-to-Pt menu, select the port you want to assign to the keypanel key.



- 2. Press SEL.
 - A list of auto-functions appear in the display window.
- 3. Using the arrow keys, select the **auto-function** you want to assign to the Pt-to-Pt assignment, if applicable.



- 4. Press SEL.
 - Tap Key appears in the display window.
- **5.** Press down on the **keypanel key position** where you want the Pt-to-Pt assignment to appear. *The key color changes to teal, and the alpha appears on the key.*

Key Assign Menu, Party Line

Party Line assigns a key that talks and/or listens to a party line. The key is not available until members have been assigned to the party line. This is done in AZedit.

NOTE: Party Line members are usually non-keypanel devices that cannot activate talk and listen paths. Therefore, if you want full communication, you may need to assign both talk and listen on the key. If all communications are normally 2-way, you may wish to assign the key as Talk+Auto Listen.

To assign a Party Line to the keypanel key, do the following:

1. Starting at the KeyAssign|Party Line menu, select the party line you want to assign to the keypanel key.



- 2. Press SEL.
 - A list of auto-functions appear in the display window.
- 3. Using the arrow keys, select the **auto-function** you want to assign to the Party Line assignment, if applicable.
- 4. Press SEL.
 - Tap Key appears in the display window.
- **5.** Press down on the **keypanel key position** where you want the Party Line assignment to appear. *The key color changes to pink and the alpha appears on the key.*

Key Assign Menu, IFB

IFB assigns the IFB assignment type to a key. By default, all IFBs are restricted. You must select the appropriate scroll enable check box in AZedit, to see IFBs.

To assign an IFB to the keypanel key, do the following:

1. Starting at the KeyAssign|IFB menu, select the **IFB assignment** you want to assign to the keypanel key.



- 2. Press SEL.
 - A list of auto-functions appear (see, Figure 29, "Auto Functions," on page 107).
- 3. Using the arrow keys, select the auto-function you want to assign to the IFB assignment, if applicable.
- 4. Press SEL.
 - Tap Key appears in the display window.
- **5.** Press down on the **keypanel key position** where you want the IFB assignment to appear. *The key color changes to salmon and the alpha appears on the key.*

Key Assign Menu, Spcl List

Spcl List assigns a key that talk and/or listens to a special list. The key is not available until members have been assigned to the special list in AZedit.

NOTE: Special List members can be non-keypanel devices that cannot activate talk and listen paths. Therefore, if you want full communication with all members of the special list, you may need to assign both talk and listen on the key.

To assign a Special List to the keypanel key, do the following:

1. Starting at the KeyAssign|Special List menu, select the **Special List** you want to assign to the keypanel key.



- 2. Press SEL.
 - A list of auto-functions appear (see Figure 29, "Auto Functions," on page 107).
- 3. Using the arrow keys, select the **auto-function** you want to assign to the Special List assignment, if applicable.
- 4. Press **SEL**.
 - Tap Key appears in the display window.
- **5.** Press **down** on the keypanel key position where you want the Special List assignment to appear. *The key color changes to green and the alpha appears on the key.*

Key Assign Menu, Sys Relay

Sys Relay refers to any of several types of control devices that can exist in the intercom system, including:

- The 8 GPI outputs from an ADAM Frame (J11 on the XCP-ADAM-MC Breakout Panel).
- The 8 GPI outputs from an ADAM CS Frame (J903on the ADAM CS back panel).
- The relay outputs of an FR9528 Relay Frame (RELAY OUTPUTS connector on the FR9528 back panel).
- The 16 GPI outputs of a UIO-256 or GPIO-16 Frame (J5 on the UIO-256/GPIO-16 back panel).

To assign a Relay to the keypanel key, do the following:

1. Starting at the KeyAssign|Sys Relay menu, select the **relay** you want to assign to the keypanel key.



- 2. Press SEL.
 - A list of auto-functions appear (see Figure 29, "Auto Functions," on page 107).
- 3. Using the arrow keys, select the **auto-function** you want to assign to the relay assignment, if applicable.
- 4. Press SEL.
 - Tap Key appears in the display window.
- **5.** Press down on the **keypanel key position** where you want the Relay assignment to appear. *The key color changes to magenta and the alpha appears on the key.*

Key Assign Menu, Camera ISO

Camera ISO assigns an **ISO** (isolate) assignment type to the key. By default, all ISOs are restricted. You must select the appropriate scroll enable check box in AZedit, to see ISOs.

To assign a Camera ISO to the keypanel key, do the following:

1. Starting at the KeyAssign|Camera ISO menu, select the **ISO** you want to assign to the keypanel key.



- 2. Press SEL.
 - A list of auto-functions appear (see Figure 29, "Auto Functions," on page 107).
- 3. Using the arrow keys, select the **auto-function** you want to assign to the Camera ISO assignment, if applicable.
- 4. Press SEL.
 - Tap Key appears in the display window.
- **5.** Press down on the **keypanel key position** where you want the Camera ISO assignment to appear. *The key color changes to dark yellow and the alpha appears on the key.*

Key Assign Menu, UPL

UPL Resrc assigns a key the UPL resource assignment type to the key. By default, all UPL resources are restricted. You must select the appropriate scroll enable check box in AZedit, to see UPLs.

To assign a UPL to the keypanel key, do the following:

1. Starting at the KeyAssign|UPL menu, select the UPL you want to assign to the keypanel key.



- 2. Press SEL.
 - A list of auto-functions appear (see Figure 29, "Auto Functions," on page 107).
- 3. Using the arrow keys, select the **auto-function** you want to assign to the UPL assignment, if applicable.
- 4. Press SEL.
 - *Tap Key appears in the display window.*
- 5. Press down on the **keypanel key position** where you want the UPL assignment to appear. *The key color changes to periwinkle and the alpha appears on the key.*

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Key Assign Menu, IFB SL

IFB SL (IFB Special List) is similar to a special list, except the members of these special lists are IFB assignments. IFB SLs are useful when a producer of a news program needs to talk to all the talent at the same time (most talent assignments are IFB assignments).

To assign an IFSL to the keypanel key, do the following:

1. Starting at the KeyAssign|IFSL menu, select the IFSL you want to assign to the keypanel key.



- 2. Press SEL.
 - A list of auto-functions appear (see Figure 29, "Auto Functions," on page 107).
- 3. Using the arrow keys, select the **auto-function** you want to assign to the IFSL assignment, if applicable.
- 4. Press SEL.
 - *Tap Key appears in the display window.*
- **5.** Press down on the **keypanel key position** where you want the IFSL assignment to appear. *The key color changes to brown and the alpha appears on the key.*

Key Assign Menu, Auto Func

Auto Func assigns an auto function to the key. Auto functions assigned to a key stay with the key regardless of the assignment.

Available options for this menu are:

AF Auto Follow for listen keys only.
 AL Auto Listen for listen keys only.
 AM Auto Mute for listen keys only.
 AR Auto Recip for listen keys only.
 AC All Call for talk level 1 only.
 Dim Table function, for talk level 2 on point-to-point keys only.



FIGURE 29. Auto Functions

To assign an Auto Function, do the following:

- 1. Starting at the KeyAssign|Auto Funcs menu, select the **auto function** you want to assign to the keypanel key.
- 2. Press SEL.

 Tap Key appears in the display window.
- 3. Press the **keypanel key** to which you want to assign the auto function.

Menu System, Key Options Menu

The **Key Options Menu**, shown in Figure 30, is used to configure many of the KP 12 CLD keypanel operation options, such as auto dial functions, chime keys and duration, exclusive keys, key group assignments, solo key configuration, latching options, button lock and tally operation.

Available options for this menu are:

Auto Dial

Chime

Clear

Exclusive

Key Groups

Latching

Lock

Panel Swap

Solo

Tallies



FIGURE 30. Main Key Option Menu

Key Options Menu, Auto Dial

Auto Dial stores commonly used phone numbers in the auto dial list locally on the keypanel. You can access the local auto dial list from any CLD Color Display Keypanel or any of the KP 12 family keypanels.

NOTE: You can also create a centralized auto dial list which is stored on the Master Controller and maintained through AZedit. For more information, see "Centralized Auto Dials" on page 154.

You can configure up to 100 stored auto dial numbers.

In version 1.1.1 and later, it is now possible to configure 1-Touch TIF auto dial numbers. 1-Touch Auto Dials are configured using the locally stored numbers on the keypanel. Once a 1-Touch Auto Dial key is configured, pressing the configured key causes the TIF to go off-hook and auto dial the selected number.

To store an auto dial number, do the following:

1. Starting at the Key Options Auto Dial menu, select **Numbers**.



2. Press SEL.

#01:<empty> appears in the display window.

NOTE: Use the up and down arrow keys, to scroll to the **auto dial entry** you want to use. There are up to 100 auto dial entries available.

3. Press SEL.

#01: with a blinking cursor appears in the display window.

4. Using the keypanel keypad, enter the **phone number** you want to store (for example, 123456789).

IMPORTANT: Do not press SEL! This closes the menu.

- **5**. On the KP 12 CLD keypad, press **FWD**.
 - Save Number? appears in the display window.
- **6.** Press the **SEL** button.

The auto dial position number and telephone number appear in the display window.

To delete a stored auto dial number, do the following:

1. Starting at the Key Options Auto Dial menu, select **Numbers**.



2. Press SEL.

#01:<empty> appears in the display window.

- 3. Using the arrow keys, select the **Auto Dial number** you want to remove.
- 4. Press SEL.

#01: with a flashing cursor appears in the display window.

NOTE: #01 is used for example purposes only. Depending on the auto dial number you want to delete determines the number seen here.

5. Press FWD.

Save Number? appears in the display window.

Press SEL.

#01: <empty> appears in the display window. The auto dial number is erased.

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To configure a 1-touch auto dial key, do the following:

- 1. Starting at the Key Options Auto Dial menu, select 1-Touch.
- 2. Press SEL.

Tap Key appears in the display window.

- **3.** Tap the **key** you want to put the TIF 1-Touch assignment. *A scroll list of auto dial phone numbers appear in the display window.*
- **4.** Using the arrow keys, select the **phone number** you want to assign to the key.
- **5.** Press the **CLR** button to exit out of Menu Mode.

NOTE: To hang up after using the 1-Touch key, you must use the TIF menu or assign Drop to a UPG key. For more information on UPG keys, see "User Programmable Key" on page 52.

Key Options Menu, Chime

Chime indicates a chime tone sounds on incoming call announcements for selected keypanel keys. You can configure the chime tone to activate for a specified amount of time after a call is received.

The range for this field is 5 seconds to 30 seconds (increments of 5).

To add a chime tone to keypanel keys, do the following:

- 1. Starting at the Key Options Chime menu, select **Keys**.
- 2. Press SEL.

Tap Key appears in the display window.



3. Tap **down** on each keypanel key to which you want to add Chime. *The selected keys turn red*.

To delete an existing chime on keypanel keys, do the following:

- 1. Starting at the Key Options|Chime menu, select **Keys**.
- 2. Press SEL.
 - Tap Key appears in the display window.
- **3.** Tap **down** on each red keypanel key from which you want to remove the chime tone. *The selected keys return to the unassigned state (light blue color).*
- 4. Press CLR to exit the menu structure.

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To set the duration of the chime tone heard, do the following:

- 1. Starting at the Key Options|Chime menu, select **Duration**.
- 2. Press SEL

The Min Duration scroll list appears in the display window.



- 3. Using the arrow keys, scroll to the **amount of time**, between 5 and 30 seconds, you want the chime to last.
- **4.** Press **SEL**. The duration is configured.

Key Options Menu, Clear

The **Clear** menu option is used to clear any key options that have been assigned to a specific key or the clear the UPG button assignment.

To clear a key's key options, do the following:

1. Starting at the Key Options menu, select Clear.



- 2. Press SEL.
 - Tap Key appears in the display window.
- **3.** Tap the **key** you want to clear the key options from. *The key options are removed from the keypanel key.*
- **4.** Press the **CLR button** to exit the menu structure.

Key Options Menu, Exclusive

Exclusive allows the user to set up a key that causes all other keys to turn off when activated. Unlike the solo option, when the exclusive option is deactivated, the keys turned off and do not turn back on. You can assign multiple exclusive keys.

To create an exclusive key assignment, do the following:

- 1. Starting at the Key Options menu, select Exclusive.
- 2. Press SEL.

Tap Key appears in the display window.



3. Tap **down** on any keypanel key you want to assign the exclusive key option. *The selected keys return to the unassigned state (light blue color).*

To remove an exclusive key assignment, do the following:

- 1. Starting at the Key Options menu, select Exclusive.
- 2. Press SEL.

Tap Key appears in the display window.

3. Tap **down** on each red keypanel key from which you want to remove the exclusive key option. *The key display turns red.*

Key Options Menu, Key Groups

Key Groups is used to create a key group. A key group allows the user to call a group of keypanels by activating one (1) key (the master key). When the master key is activated, all keys in the group become active.

You can create up to four (4) key groups.

To create a key group, do the following:

NOTE: Use the following instructions to create any of the four (4) key groups.

1. Starting at the Key Options|Key Groups menu, select the **Group** (1-4) you want to create.



2. Press SEL.

Tap Master Key appears in the display window.

3. Tap **down** on the keypanel key you want to act as the master key. *The selected key turns red and Tap Slave Key(s) appears in the display window.*



4. Tap **down** on the keypanel keys you want to be activated when the master key is selected. *The selected keys turn green*.

To delete a key group, do the following:

- 1. Starting at the Key Options|Key Groups menu, select the **Group** (1-4) you want to delete.
- 2. Press the **SEL** button.

Tap the Master Key appears in the display window.

- 3. Tap **down** on the red keypanel key you configured as the master key.

 The selected key returns to the unassigned state (light blue color) and Tap Slave Key(s) appears in the display window.
- **4.** Tap **down** on the keypanel keys you want to be activated when the master key is selected. *The selected keys turn green.*

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Key Options Menu, Latching

Latching is used to enable or disable the keypanel key to stay on when pressed. When Latching is enabled, the talk function stays on after the talk key is pressed. Otherwise, the talk function only works when the button is pressed.

By default, latching is enabled.

To set latching on a keypanel key, do the following:

- 1. Starting at the Key Options menu, select Latching.
- 2. Press SEL.

Disabled and Enabled appear in the display window.



3. Using the up or down arrow key, select **Enabled** or **Disabled**.

A blue arrow papears next to the selected option.

Key Options Menu, Lock (Button Lock)

Lock is used lock keypanel keys in the on or off position. Each key may be independently locked on or off.

To lock a button on, do the following:

1. Starting at the Key Options menu, select Lock.



- 2. Press SEL.
 - Tap Key appears.
- 3. Tap the **keypanel key** you want to lock on.

 The key turns green with white trim. This indicates the key is locked on. A red key indicates the key is locked off, which means the user cannot turn the key on or off.
- 4. Press **CLR** to exit the menu structure.

Key Options Menu, Panel Swap

Panel Swap gives users the ability to quickly and easily change a group of keypanel assignments on the keypanel. This is done through the use of virtual expansion panels. Virtual expansion panels use ports in the system, just like a physical keypanel or expansion panel. Panel swap differs from changing setup pages because the keys can stay active even when they are no longer visible on the main panel. Also, panel swap allows the user a 1-touch trigger to complete two (2) actions at once.

IMPORTANT:

The number of actual physical keys on the keypanel and any attached actual physical expansion panel must be less than the numbers of available ports.

For example, the KP 32 CLD has 32 physical keys and the matrix has 64 ports; therefore, one (1) virtual EKP can be used.

However, a KP 32 CLD and an EKP 32 CLD has 64 physical keys. Virtual EKPs cannot be used unless the Intercom is configured for 96 or 128 ports.

Panel swap can be configured to a UPG key, a GPI Input, or GPI Output allowing local or remote access. A GPI board does not need to be installed to be controlled by GPI Outputs. However you must set up a Setup Page in AZedit for the virtual EKP to be able to assign key assignments.

TABLE 8. Number of Virtual EKPs supported with different keypanel and intercom configurations

Intercom configured for 64 keys	# of Virtual EKPs supported
KP 32 CLD	1
KP 32 CLD w/EKP 32 CLD	0
KP 12 CLD	3

Intercom configured for 96 keys	# of Virtual EKPs supported
KP 32 CLD	2
KP 32 CLD w/EKP 32 CLD	1
KP 32 CLD w/2xEKP 32 CLD	0
KP 12 CLD	5

Intercom configured for 128 keys	# of Virtual EKPs supported
KP 32 CLD	3
KP 32 CLD w/EKP 32 CLD	2
KP 32 CLD w/2xEKP 32 CLD	1
KP 32 CLD w/3xEKP 32 CLD	0
KP 12 CLD	7

Panel Swap Control Options

There are several control mechanisms to configure the way panel swap is engaged:

Keypad FWD

Keypad BACK

Keypad UPG

GPI In Opto 1, 2, 3, and 4

GPI Out OC Out 1 and 2

GPI Out Relay 1, 2, and 3

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Configuration for Panel Swap

Once you set up the control, you then configure how to physically activate the panel swap. There are three (3) ways to configure the way in which to switch keypanel assignments from page to page.

Cycle To: Uses the FWD and BACK buttons to navigate to the key assignments.

Switch To: Used to switch to a specific panel – MAIN, EKP1, etc.

The following icon appears when the Main page is showing. MAIN

The following icon appears when the first virtual EKP is showing. **EKP1** Subsequent virtual EKPs

display their number in the icon.

Toggle To: Used to assign a pre-programmed key to switch to established pages.

Used to erase the panel swap action from a trigger or control mechanism. Unassigned

Panel Swap Key States

Key States define how the key assignment behaves when it does not appear in the display window. There are two (2) states available for a key to be configured:

Force Off: The key assignment is automatically terminated when the key assignment is not displayed.

Retain: The key assignment stays active even when the key assignment is not displayed.

When retain is selected and a key is not displaying, the following icon shows in the display window.

VIRT.

In the menu structure, under Panel Swap, the menu items Control and Key States appear, but are unavailable on the keypanel until one (1) or more virtual EKPs are assigned.

To assign virtual keypanels, do the following:

- 1. Starting at the Key Options Panel Swap menu, select Virtual EKPs.
- Press SEL.

IMPORTANT:

None, 1 EKP, 2 EKP, etc appear in the display window.

The number of virtual keypanels that appear in the selections depends on the number available ports you have.

3. Using the arrow keys, select 1 EKP.



- Press SEL
 - A blue arrow papears next to the selected option.
- **5**. Press the **CLR** button to exit the menu.

To configure how to access the virtual keypanel from the front of the keypanel, do the following:

1. Starting at the Key Options Panel Swap menu, select Control.



2. Press SEL.

GPI Inputs, GPI Outputs, and Keypad appear in the display window.



- 3. Using the arrow keys, select **control mechanism** desired.
- 4. Press SEL.

The appropriate sub-control mechanism appears (see "Panel Swap Control Options" on page 114).

- 5. Using the arrow keys, select the **sub-control mechanism**.
- 6. Press SEL.

Cycle To, Switch To, Toggle To, and Unassigned appear in the display window.



- 7. Using the arrow keys, select the **keypanel action** desired.
- 8. Press SEL.

A list of actions for the keypanel action appears in the display window (see "Configuration for Panel Swap" on page 115).

- **9.** Using the arrow keys, select the **action** desired.
- 10. Press SEL.

A blue arrow papears next to the selected option.

11. Press the CLR button to exit the menu.

To configure the panel swap key states, do the following:

1. Starting at the Key Options|Panel Swap menu, select **Key States**.



2. Press SEL.

Force Off and Retain appear in the display window.



- 3. Using the arrow keys, select the **key state** you want to enable (see "Panel Swap Key States" on page 115).
- 4. Press SEL.
 - A blue arrow appears next to the selected option.
- **5.** Press the **CLR** button to exit the menu.

To erase any programming from the panel swap configuration, do the following:

1. Starting at the Key Options Panel Swap menu, select Control.



2. Press SEL.

GPI Inputs, GPI Outputs, and Keypad appear in the display window.



- 3. Using the arrow keys, select control mechanism you want to erase.
- 4. Press SEL.

The appropriate sub-control mechanism appears (see "Panel Swap Control Options" on page 114).

5. Using the arrow keys, select the **sub-control mechanism you want to erase**.

6. Press **SEL**.

Cycle To, Switch To, Toggle To, and Unassigned appear in the display window.



- 7. Using the arrow keys, select **Unassigned**.
- 8. Press SEL.
 - *A blue arrow* appears next to the selected option.
- **9**. Press the **CLR** button to exit the menu.

Key Options Menu, Solo

Solo allows the user to set up a key that causes all other keys to turn off when activated. However, when the solo key is released, the keys that were turned off by the solo key turn back on.

You can assign only one (1) solo key.

To create a solo key, do the following:

- 1. Starting at the Key Options menu, select Solo.
- 2. Press SEL.

Tap Key appears in the panel display.



3. Tap **down** on the keypanel key you want to configure as solo. *The selected key turns red and Tap Slave Key(s) appears in the display window.*

To remove a solo key, do the following:

- 1. Starting at the Key Options menu, select Solo.
- 2. Press SEL.
 - Tap Key appears in the panel display.
- **3.** Tap **down** on the red solo keypanel key from which you want to remove the solo assignment. *The selected key turns red and Tap Slave Key(s) appears in the display window.*

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Key Options Menu, Tallies



FIGURE 31. Key Options Menu - Tallies Menu

Tallies are used to indicate incoming calls with blinking alpha assignments. You can configure tally time as 15 seconds or an indefinite period of time. If indefinite is chosen, the tally continues to blink until the call is answered.

By default, tallies are set to 15 seconds.

To set the tally time on an incoming call, do the following:

- 1. Starting at the Key Options Tallies menu, select 15 Seconds or Indefinite.
- 2. Press SEL.

A blue arrow appears next to the selected option.



Key Options Menu, Turn Off

The **Turn Off** menu item allows the user to turn off all keys, all talk keys, or all listen keys. This menu item can be used with the programmable UPG key to create a UPG key which can turn off all keys with one(1) push of a key.

To turn off keys on the keypanel using the menu, do the following:

- 1. Starting at the Key Options|Turn Off menu, select All Keys, Talk Keys, or Listen Keys.
- 2. Press SEL.

 Turn Keys Off? appear in the keypanel display window.
- 3. Press SEL.

 Key Turned Off appears in the keypanel display window.
- 4. Press CLR to clear the keypanel display window.

To configure a UPG to turn off keys, do the following:

- 1. Starting at the Key Options|Turn Off menu, select All Keys, Talk Keys, or Listen Keys.
- 2. Press SEL.

 Turn Keys Off? appear in the keypanel display window.
- 3. Press SEL.
 - Keys Turned Off appears in the keypanel display window.
- On the keypanel, press and hold UPG until the message Menu position saved appears in the keypanel display window.
 - Keys Turned Off appears in the keypanel display window once the UPG key is released.
- **5.** Press **CLR** to clear the keypanel display window.

To configure a UPG to require confirmation before turning off keys, do the following:

- 1. Starting at the Key Options Turn Off menu, select All Keys, Talk Keys, or Listen Keys.
- 2. Press SEL.

Turn Keys Off? appear in the keypanel display window.

On the keypanel, press and hold UPG until the message Menu position saved appears in the keypanel display window.

Keys Turned Off? appears in the keypanel display window once the UPG key is released.

4. Press SEL.

Keys Turned Off appears in the keypanel display window.

5. Press **CLR** to clear the keypanel display window.

Menu System, OMNEO Offers (Only available with OKI option card installed)

The **OMNEO Offers** menu item is used to configure the matrix connection when the OKI option card is installed. From this menu, you can also configure the OMNEO channels to be used for AUX Inputs.



FIGURE 32. OMNEO Offers Information Menu Option

OKI Option Card Matrix Port Configuration

With the OKI card installed in the CLD family of keypanels, you can have up to two (2) additional full-duplex audio channels that can be mixed with audio in the CLD keypanel.

NOTE: You can only have one (1) frame connection at a time.

To configure an available OMNEO device connection port, do the following:

1. Starting at the OMNEO Offers Keypanel menu, select **OKI-2**.



- 2. Press SEL.
 - A list of available OMNEO devices appears.
- 3. Using the arrow keys, select the **OMNEO device** you want to use.
- 4. Press SEL.
 - A blue arrow papears next to the selected option.
- 5. Press **CLR** to exit menu mode.

OKI Option Card Aux Port Configuration

NOTE: OMNEO channel 1 can be used for either the matrix connection or as an Aux Input/Output. However, it cannot be used as both at the same time.

To configure the OMNEO channels as Aux Inputs, do the following:

1. Starting at the OMNEO Offers|Keypanel menu, select **Aux Input**.



2. Press SEL.

OMNEO Ch1 and OMNEO Ch2 appears in the display window.



- 3. Using the arrow keys, select **OMNEO Ch1** or **OMNEO Ch2**.
- **4.** Press **SEL**.

 A list of available OMNEO offers appear in the display window.
- 5. Using the arrow keys, select the **OMNEO offer** you want to configure as an Aux Input.
- 6. Press SEL.

 The OMNEO Aux Input is configured.

Menu System, RVON Offers (Only available with the RVON-2 option card installed)

The **RVON Offers** menu item is used to configure the matrix connection when the RVON-2 option card is installed. It is also used to configure which RVON channels can be used for Aux Input.



FIGURE 33. RVON Offers Information Menu Option

RVON-2 Option Card Matrix Connection

NOTE: You can only have one (1) frame connection at a time.

There are three (3) ways to connect to the matrix:

AIO-8, AIO-16, Cronus. When the AIO connection is used, both RVON Ch1 and Ch2 are available as

Aux Input Channels. Use the Frame connection on the back panel of the keypanel.

RVON-2 RVON-16, RVON-8, RVON-C, RVON-I/O (in remote mode). You can only use RVON CH1 when

connecting to the matrix using the RVON-1. Use the VoIP connection on the RVON-2 option card.

RVON-I/O RVON-16, RVON-8, RVON-C, and RVON-I/O (in local mode). Use the Frame connection on the back

panel of the keypanel.

NOTE: For more information about RVON-I/O configuration, see the RVON-I/O user manual (F.01U.193.280).

RVON-2 Option Card Matrix Port Configuration

With the RVON-2 option card installed in the CLD family of keypanels, you can have up to two (2) additional full-duplex audio channels that can be mixed with audio in the CLD keypanel.

NOTE: RVON channel 1 can be used for either the matrix connection or as an Aux Input/Output. However, it cannot be used as both at the same time.

To configure the Matrix connection port, do the following:

1. Starting at the RVON Offers|Keypanel menu, select the **Matrix connection type** you want to use.



NOTE: If an RVON-I/O is connected to the keypanel, RVON-I/O replaces the AIO menu option.

- 2. Using the arrow keys, select the **port** you want to use.
 - A blue arrow appears next to the selected option.
- 3. Press **CLR** to exit menu mode.

RVON-2 Option Card Aux Port Configuration

To configure the RVON channels as Aux Inputs, do the following:

1. Starting at the RVON Offers|Aux Input menu, select RVON Ch1 or RVON Ch2.



- 2. Press SEL.
 - A list of available RVON ports appear in the display window.
- 3. Using the arrow keys, select the **RVON port** you want to configure as an Aux Input.
- 4. Press SEL.
 - The RVON Aux Input is configured.

Menu System, Save Config

The **Save Config** menu option, shown in Figure 34, is used to save custom settings made in the Key Option or Service menus. Once you have made modifications to these menu options, you must run Save Cfg to store the custom settings in non-volatile memory. This ensures your custom settings are saved when the keypanel is powered down. You can run Reset Config (see "Service Menu, Reset Cfg" on page 142), to erase all custom settings.



FIGURE 34. Save Config Menu Option

To run a save config, do the following:

- 1. On the KP 12 CLD keypad, press **MENU**. *The Information menu appears*.
- 2. Using the arrow keys, select **Save Config**.
- **3.** Press **SEL**. Configuration Saved appears in the display window.



Menu System, Service

The information available for key assign is as follows:

Alphas

Aux/Mtx Inputs

Baud Rate

Display Dim

Footswitch

Key View

Keypad

Local GPIO

OMNEO Setup (Only Available if the OKI card is present)

Reset Cfg

RVON Setup (Only Available if the RVON card is present)

Scrn Saver

Set Address

Snoop Tally

Test Panel



FIGURE 35. Main Service Menu

Service Menu, Alphas

The Alphas menu is used to select the character size appearing in the display window of the keypanel.

NOTE: When a Reset Cfg is performed, the Alphas and Poll ID do not get reset.

Minimum firmware revision requirements for Cyrillic support¹ are:

- MCII-e v 2.4.0 or later
- AIO-8 v 10.5.0 or later
- AIO-16 v1.3.0 or later
- Cronus v 1.8.0 or later
- Zeus III v 1.3.0

- KP 32 CLD v 1.3.0 or later
- KP 12 CLD v 1.1.0
- KP812-U v 1.0.0
- KP12/4U v 1A.0.25C (Cyrillic character set only)
- Font file KP32-CLD-UNICODE.KPF v 0.05

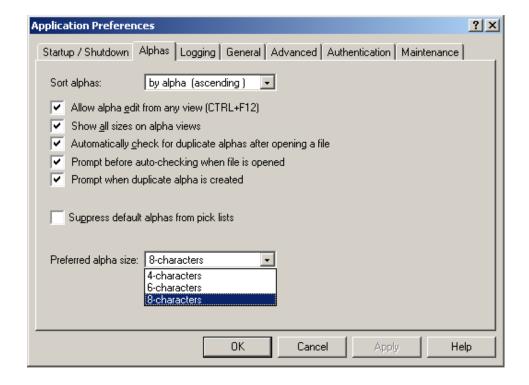
NOTE: Cyrillic, Katakana and Kanji modes can be run on Unicode intercoms only.

Available options are:

- 4 Chars
- 6 Chars
- 8 Chars
- 8 Chars (Unicode)

IMPORTANT:

When using an AIO-8, AIO-16 with a SCSI connector or a Zeus Intercom System, only keypanels with the same alpha size can be used. Go to the Alphas page in the Application Preferences notebook (in AZedit, *Options*|*Preferences*|*Alphas*) to set the alpha size in AZedit. For more information, see the AZedit User Manual.



To set the character size and keypanel language, do the following:

^{1.} To use Cyrillic mode, you must configure AZedit to support it. For more information, see "Cyrillic Support" on page 213.

1. Starting at the Service Alphas menu, select 4 Chars, 6 Chars, 8 Chars, or 8 Chars (Unicode).



2. Press SEL.

Cancel and Save and Restart appear in the display window.



- 3. Using the arrow keys, select **Save and Restart**.
- **4.** Press **SEL**. The keypanel restarts itself.

Service Menu, Aux/Mtx Inputs

Aux/Mtx Inputs enables or disables the control for audio input through the front panel encoder. The KP 12 CLD has three (3) Aux Input connectors on the back panel of the unit. See the "KP 12 CLD Block Diagram" on page 13.

By default, Matrix In is enabled.

NOTE: This feature is only enabled if the GPI 12 CLD option card is installed.

To enable/disable the aux/mtx inputs, do the following:

- 1. Starting at the Service Aux/Mtx Inputs menu, select Aux In 1, Aux In 2, Aux In 3, Matrix In, RVON Ch1 or RVON Ch2.
- 2. Press SEL.

Disabled and Enabled appear in the display window.

3. Using the arrow keys, select **Enabled** to enable the selected Aux Input.

OR

Select **Disabled** to disable the selected Aux Input.

Service Menu, Baud Rate

Baud Rate indicates the baud rate at which data is transmitted to the matrix.

Available selections for this field are:

Auto Baud the baud rate is determined automatically by the Matrix. 9600 Baud (default) 76.8K Baud

To set the baud rate, do the following:

1. Starting at the Service Baud Rate menu, select the baud rate you want to use.

A blue arrow papears next to the option currently selected.



Press SEL.

Service Menu, Display Dim

Display Dim displays the percentage of brightness of the keypanel display.

Available selections for this menu are 35% brightness up to 100% brightness (set in increments of 5). By default, the keypanel brightness is set to 40%.

You can configure this option one (1) of three (3) ways:

All Panels allows you to set the brightness for all panels connected to the keypanel.

Expansion allows you to set the brightness for only the main keypanel. You can set the brightness for the left

display window, the right display window, or both display windows.

Main Panel allows you to set the brightness for only the main keypanel. You can set the brightness for the left

display window, the right display window, or both display windows.

To set the display brightness on all panels, do the following:

1. Starting at the Service Display Dim menu, select **All Panels**. Brightness: [X]% (where X represents a number from 35 to 100) appears in the display window.

- 2. Using the scroll arrows \Rightarrow , adjust the **brightness** (35% to 100%) you want the keypanel to display.
- 3. Press CLR to exit the menu system.

To set the keypanel brightness for the main panel, do the following:

NOTE: Use these instructions to set the brightness for any expansion panels you want to set.

- 1. Starting at the Service Display Dim menu, select Main Panel.
- 2. Press SEL.

Both, Left and Right appear in the display window.

- 3. Using the arrow keys, select **Both**, **Left**, or **Right**.
 - Brightness: [X]% (where X represents a number from 35 to 100) appears in the display window.
 - Both adjusts both the left and right display windows on the keypanel or the expansion panel.
 - Left adjusts the left display window on the keypanel or the expansion panel.
 - Right adjusts the right display window on the keypanel or the expansion panel.
- **4.** Using the scroll arrows **♦**, adjust the **brightness** (35% to 100%) you want the keypanel to display.
- 5. Press CLR to exit the menu system.

Service Menu, Footswitch

The **Footswitch** menu allows the user to enable the footswitch feature and how a talk key behaves when the footswitch is released. In normal footswitch operation, latched talk keys go into a ready state waiting for the footswitch to be pressed. When the footswitch is pressed, the latched talk keys become active. Then, when the footswitch is released, the latched talk keys go back into a ready state. You can configure the keypanel so latched talk keys become unlatched when the footswitch is released. In this mode, the footswitch is a one time operation. pressing the footswitch turns the talk keys on, and releasing the footswitch the keys off, unlatching them so the keys are unable to come on again with the next press of the footswitch. To use the footswitch again, you must re-latch the desired talk keys. For more information, see "Key Options Menu, Latching" on page 113.

A footswitch is foot-triggered switch used to activate keypanel assignments.

By default, the Footswitch is disabled.

E S	Footswitch Active	The footswitch is active.	
FS	Footswitch Enabled	The footswitch is enabled, but not active. NOTE: When a talk key is latched while the Footswitch is enabled, the key display	
			turns amber to signify that it is waiting for footswitch activity.

Enabling

To **enable the footswitch**, do the following:

- 1. Starting at the Service|Footswitch menu, select **Mode**.
- 2. Press SEL.

 Disabled and Enabled appear in the display window.
- 3. Using the arrow keys, select **Enabled**.
- 4. Press SEL.

A blue arrow appears next to Enabled. When Footswitch is enabled, a green footswitch appears on the right side of the left display window.



To disable the footswitch, do the following

- 1. Starting at the Service|Footswitch menu, select **Mode**.
- 2. Press SEL.

 Disabled and Enabled appear in the display window.
- 3. Using the arrow keys, select **Disabled**.
- 4. Press SEL.
 - A blue arrow papears next to Disabled.

Latch Operation

To have talk keys unlatch when the footswitch is released, do the following:

- 1. Starting at the Service|Footswitch menu, select **Latched Keys**.
- 2. Press SEL.

Retain and Unlatch appear in the display window.

3. Using the arrow keys, select **Unlatch**.

A blue arrow papears next to Unlatch.

4. Press **CLR** to exit menu mode.

To have talk keys return to the latched state when the footswitch is released, do the following:

- 1. Starting at the Service|Footswitch menu, select Latched Keys.
- 2. Press SEL.

Retain and Unlatch appear in the display window.

3. Using the arrow keys, select **Retain**.

A blue arrow appears next to Retain.

4. Press **CLR** to exit menu mode.

Service Menu, Ganged Vols

Ganged Vols is used to set what happens when adjusting the volume for a ganged channel pair when the volumes are not identical and one of the volumes reaches the minimum or maximum level.

Available options:

Disappearing Mode - allows adjustments to continue when one of the volumes of the ganged pair hits a limit. This setting adjusts the volume difference until the difference or offset between the volumes disappears.

Fixed Offset Mode - prevents adjustments from continuing when one of the volumes of the ganged pair hits a limit. This setting maintains the difference between the two volumes.

To **configure ganged volumes**, do the following:

1. Starting at the Service|Ganged Vols menu, select **Disappearing** to allow adjustments to continue once a limit has been met by one (1) of the volumes.

Select Fixed Offset, to prevent adjustments once a limit has been met by one (1) of the volumes.



2. Press SEL.

A blue arrow appears next to the selected item.

Service Menu, Intercom Mode

The **Intercom Mode** menu is used to select the type of firmware you have in your intercom so the keypanel can display alphas in the correct font/language.

Available options are Alternate and Standard.

To select the intercom mode, do the following:

- 1. Starting at the Service Intercom Mode menu, select Alternate or Standard.
 - *A blue arrow* appears next to the selected mode.
- 2. Press SEL.

The selections Cancel and Save and Restart appear in the keypanel display window.

3. Using the arrow keys, select **Cancel** to cancel out the action.

OR

Using the arrow keys, select **Save and Restart** to save the changes.

Service Menu, Key View

Key View allows the user to set the key view for the keypanel. You can set the keypanel to display only Talk keys, Talk/Listen Keys or Suppress AF (suppress auto follow) keys.

By default, Suppress AF is selected.

To set the key view, do the following:

1. Starting at the Service Key View menu, select **Talk Only** to show only talk keys.

OR

Select Talk/Listen to show talk and listen keys.

 $\cap R$

Select **Suppress AF** to hide auto functions of the key assignments.

2. Press SEL.

A blue arrow appears next to selected option.

NOTE: When Talk/Listen is selected, the keypanel keys shows the listen assignment on top and talk assignment on the bottom of the key.



Service Menu, Keypad

Keypad is used to set the keypad sequence to be used with the keypanel and to set the backlight options.



FIGURE 36. Service Menu - Keypad Options

Keypad Sequence

Keypad Sequence is used to select the type of keypad you want to use on the KP CLD unit.

Available selections for this option are Classic and Standard.

For more detailed information, see "KP 12 CLD Keypad Quick Reference" on page 159.

To set the keypad sequence for the keypanel, do the following:

- 1. Starting at the Service|Keypad menu, select **Sequences**.
- 2. Press SEL.

 Classic (default) and Standard appear on the display window.



3. Using the arrow keys, select **Standard** for the standard keypad sequence. OR

Using the arrow keys, select Classic for the classic keypad sequence.

A blue arrow appears next to the selection.

SEL Key

The **SEL Key** menu allows the user to choose how the SEL or PGM key functions. There are two (2) types of keypads available: Standard and Classic. With the standard keypad, this menu allows you to set up the SEL key functionality. With the classic keypad, this menu allows you to set up the PGM key functionality.

Available selections for this field are:

Auto (default) The key function is automatically selected based on whether you are in English or Japanese alpha

mode. In English mode, the SEL/PGM key is assigned Assignment Group functionality, while in

Japanese mode, the SEL/PGM key is assigned Quick Assign functionality.

Assignment Groups The key function is given Assignment Groups. This displays the scroll lists of a collection of

user-selectable key assignments. When you select a group, a scroll list of the members of the group

appear, which then can be called or programmed onto a key. For more information, see

"Assignment Groups Page" on page 57.

Quick Assign The key function is given Quick Assign. When you configure the SEL/PGM key with Quick

Assign, you are actually selecting your most used key type, for example, P-P with AL. When the SEL/PGM key is pressed with a quick assign configured to it, a menu appears with Assign or Clear. The user can then quickly configure a key with a pre-configured assignment by selecting Assign, or

clear the key assignment by selecting Clear.

Backlight

Available selections for this field are:

Activate (default) When Activate is selected, the backlight activates when the user presses any keypad key on the

keypanel. This action is not part of the key sequence, but simply a way to activate the backlight on

the keypad.

Always Off The keypad backlight is always off.

Always On The keypad backlight is always on.

NOTE: When the keypanel menu is not active, the backlight stays lit for five (5) seconds of inactivity before shutting off. However, when the keypanel menu is active, the backlight stays lit for one (1) minute before exiting the menu system and shutting off.

To set the keypad backlight option, do the following:

- 1. Starting at the Service Keypad menu, select **Backlight**.
- 2. Press SEL.

Activate (default), Always Off, and Always On appear in the display window.



3. Using the arrow keys, select **Always On** to have the keypad backlight always on.

OR

Using the arrow keys, select **Always Off** to have the keypad backlight never on.

OR

Using the arrow keys, select **Activate** to have the keypad turn on when the keypad is pressed.

Service Menu, Local GPIO

Local GPIO is used to configure GPIO inputs and outputs. You can only use this option if your keypanel has an optional Connector Module. Inputs can be assigned to activate intercom keys (including group master keys). Outputs can be activated by intercom keys.

Further configuration can be done to allow a GPIO Output to track the state of the Output. For example, if an output is activated (and is being tracked by an input), the input is also activated. This feature allows GPIO Outputs to control Talk Key or Key Group activation.

In addition to tracking, you can also configure how Key Group keys are activated with triggered by a GPIO Input. By default, when a key group is activated, the keys are forced on until the key group is deactivated. This is referred to as Level Mode. Alternatively, you can configure the key group to Edge Mode. This option turns on keys in a key group when the GPIO Input is activated, but allows the user to turn off individual keys even if the GPIO Input is still asserted.

NOTE: This feature is only enabled if the GPI 12 CLD option card is installed.

To configure a GPIO Input to control an individual talk key, do the following:

1. Starting at the Service Local GPIO menu, select **GPIO Inputs**.



- 2. Press SEL.
 - *Opto 1, Opto 2, Opto 3, and Opto 4 appear in the display window.*
- 3. Using the arrow keys, select **Opto 1**, **Opto 2**, **Opto 3**, or **Opto 4**.
- 4. Press SEL
 - Function and Mode appear in the display window.
- **5.** Using the arrow keys, select **Function**. *Key Group, Not Assigned, and Talk Key appear in the display window.*



- **6.** Using the arrow keys, select **Talk Key**. *Tap Key appears in the display window.*
- **7.** Tap the **talk key** to be controlled by the GPIO Input. *A red bar appears on the selected talk key.*

To configure a GPIO Input to control a Key Group and select Level or Edge, do the following:

- 1. Starting at the Service Local GPIO menu, select **GPIO Inputs**.
- 2. Press SEL.
 - Opto 1, Opto 2, Opto 3, and Opto 4 appear in the display window.
- 3. Using the arrow keys, select **Opto 1**, **Opto 2**, **Opto 3**, or **Opto 4**.
- 4. Press SEL.
 - Function and Mode appear in the display window.
- **5.** Using the arrow keys, select **Function**. *Key Group, Not Assigned, and Talk Key appear in the display window.*

- 6. Using the arrow keys, select **Key Group**.
- 7. Press SEL.

A list of Key Groups appear in the display window.



- 8. Using the arrow keys, select the **group** to be controlled by the GPIO Input.
- 9. Press **SEL**. *Level and Edge appear in the display window.*
- 10. Using the arrow keys, select Level or Edge.
- 11. Press SEL.

A blue arrow papears next to the selection.

To setup a GPIO Input to track its corresponding GPIO Output, do the following

- 1. Starting at the Service Local GPIO menu, select **GPIO Inputs**.
- 2. Press SEL.

Opto 1, Opto 2, Opto 3, and Opto 4 appear in the display window.

- 3. Using the arrow keys, select **Opto 1**, **Opto 2**, **Opto 3**, or **Opto 4**.
- 4. Press SEL.

Function and Mode appear in the display window.

5. Using the arrow keys, select **Mode**.



6. Press SEL.

Normal and Track Output appear in the display window.

7. Using the arrow keys, select **Track Output**.



8. Press SEL.

A blue arrow appears next to the selection.

To configure local control of a GPIO Output, do the following:

- 1. Starting at the Service Local GPIO menu, select **GPIO Outputs**.
- 2. Press SEL.

OC Out 1, OC Out 2, Relay 1, Relay 2, and Relay 3 appear in the display window.



- 3. Using the arrow keys, select Relay 1, Relay 2, Relay 3, OC Out 1, or OC Out 2.
- 4. Press SEL.
 - Not Assigned, Talk Key, UPG 1 appear in the display window.
- **5.** Using the arrow keys, select the **method** you want to control the GPIO Output. *If UPG1 or UP2 is selected, configuration is finished. If Talk Key is selected, proceed to the next step.*
- 6. Press SEL.
 - Tap Key appears in the display window.
- 7. Tap the **key** to be used to trigger the GPIO Output. *The selected keypanel key turns red.*

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Service Menu, OMNEO Setup

The **OMNEO Setup** menu option is used to configure the OKI's device name, enable DHCP, and address the OKI card for the CLD keypanel.

IMPORTANT:

When making changes to the OKI device name and IP Address at the keypanel, you must make the same changes in AZedit or IPedit before the connection is made. For example, if you configure all of your devices in either AZedit or IPedit before putting the matrix on the network. Once the keypanels have been configured and the matrix is put on the network, the connections will automatically be made. Making the change at the keypanel alone does not automatically update the configuration on the matrix.

To enable DHCP from the keypanel, do the following:

1. Starting at the Service OMNEO Setup menu, select **OKI-2**.



2. Press SEL.

Device Name, DHCP, and IP Parameters appear in the display window.



- 3. Using the arrow keys, select **DHCP**.
- Press SEL.

Disabled and Enabled appear in the display window.

- 5. Using the arrow keys, select **Enabled**.
- **6.** Press the **CLR** button to exit the menu.

To configure the OKI's device name, do the following:

1. Starting at the Service OMNEO Setup menu, select OKI-2.



2. Press SEL.

Device Name, DHCP, and IP Parameters appear in the display window.

- 3. Using the arrow keys, select **DHCP**.
- 4. Press SEL.

Disabled and Enabled appear in the display window.

5. Verify **DHCP** is disabled.

NOTE: When making changes to the OMNEO device, DHCP must be disabled before changing the name or IP Address.

6. Press BACK.

Device Name, DHCP, and IP Address appear in the display window.



7. Using the arrow keys, select **Device Name**.

The name of the OKI card appears in the display window with the first character of its name blinking.



- 8. Using the arrow keys, scroll through the **characters** to the character you want to assign.
- 9. Press SEL.

The focus moves to the next letter.

- 10. Repeat steps 8 and 9 until you have modified the device name.
- 11. Press FWD.

The message Save Name? appears on the display window.

12. Press SEL.

To configure the OKI IP parameters, do the following:

- 1. Starting at the Service OMNEO Setup menu, select **OKI-2**.
- 2. Press SEL.

Device Name, DHCP, and IP Parameters appear in the display window.



- 3. Using the arrow keys, select **IP Parameters**.
- 4. Press SEL.

IP Address, Gateway, Netmask, Domain, DNS Server 1, and DNS Server 2 appear in the display window.



5. Press SEL.

The IP Address appears with the first octet blinking in the display window.

- 6. Using the number pad, enter the **first octet number** in the IP Address.
- 7. Press SEL.

The focus shifts to the second octet.

- 8. Using the number pad, enter the **second octet number** in the IP Address.
- 9. Press SEL.

The focus shifts to the third octet.

- 10. Using the number pad, enter the **third octet number** in the IP Address.
- 11. Press SEL.

The focus shifts to the last octet.

- **12.** Using the number pad, enter the **last octet number** in the IP Address.
- 13. Press SEL.

The OMNEO Setup menu options appear in the display window.

To configure the Gateway Address, do the following:

1. Using the arrow keys, select **Gateway**.



Press SEL.

The Gateway Address appears with the first octet blinking in the display window.

- 3. Using the number pad, enter the **first octet number** in the Gateway Address.
- 4. Press SEL

The focus shifts to the second octet.

- **5.** Using the number pad, enter the **second octet number** in the Gateway Address.
- 6. Press SEL

The focus shifts to the third octet.

- 7. Using the number pad, enter the **third octet number** in the Gateway Address.
- 8. Press SEL.

The focus shifts to the last octet.

- **9.** Using the number pad, enter the **last octet number** in the Gateway Address.
- 10. Press SEL.

The RVON Setup menu options appear in the display window.

To configure the Netmask Address, do the following:

1. Using the arrow keys, select **Netmask**.



2. Press SEL.

The Netmask Address appears with the first octet blinking in the display window.

- 3. Using the number pad, enter the **first octet number** in the Netmask Address.
- 4. Press SEL.

The focus shifts to the second octet.

- 5. Using the number pad, enter the **second octet number** in the Netmask Address.
- Press SEL.

The focus shifts to the third octet.

- 7. Using the number pad, enter the **third octet number** in the Netmask Address.
- 8. Press SEL.

The focus shifts to the last octet.

9. Using the number pad, enter the **last octet number** in the Netmask Address.

10. Press SEL.

The RVON Setup menu options appear in the display window.

11. Press CLR to exit menu mode.

To configure the Domain name, do the following:

1. Using the arrow keys, select **Domain**.



2. Press SEL.

The domain name appears with the first character blinking in the display window.



- 3. Using the arrow keys, scroll through the **characters** to the character you want to assign.
- 4. Press SEL.

The focus moves to the next letter.

- 5. Repeat steps 3 and 4 until the domain is named.
- **6.** Once finished, press the **FWD** button.

Save Name? appears in the display window.

7. Press the **SEL** button to accept.

OR

Press the **BACK** button to return to the configuration screen.

OR

Press the CLR button to exit the menu completely.

To **configure DNS 1**, do the following:

1. Using the arrow keys, select **DNS Server 1**.



2. Press SEL.

The DNS 1 Server Address appears with the first octet blinking in the display window.

- 3. Using the number pad, enter the **first octet number** in the DNS Address.
- 4. Press SEL.

The focus shifts to the second octet.

- 5. Using the number pad, enter the **second octet number** in the DNS Address.
- 6. Press SEL.

The focus shifts to the third octet.

- 7. Using the number pad, enter the **third octet number** in the DNS Address.
- 8. Press SEL.

The focus shifts to the last octet.

- 9. Using the number pad, enter the **last octet number** in the DNS Address.
- 10. Press SEL.

The OMNEO Setup menu options appear in the display window.

11. Press CLR to exit menu mode.

To configure DNS 2, do the following:

1. Using the arrow keys, select **DNS Server 2**.



2. Press SEL.

The DNS 2 Server Address appears with the first octet blinking in the display window.

- 3. Using the number pad, enter the **first octet number** in the DNS Address.
- 4. Press SEL.

The focus shifts to the second octet.

- **5.** Using the number pad, enter the **second octet number** in the DNS Address.
- 6. Press SEL.

The focus shifts to the third octet.

- 7. Using the number pad, enter the **third octet number** in the DNS Address.
- 8. Press SEL.

The focus shifts to the last octet.

- 9. Using the number pad, enter the last octet number in the DNS Address.
- 10. Press SEL.

The OMNEO Setup menu options appear in the display window.

11. Press CLR to exit menu mode.

Service Menu, Page Change

Page Change is used to select whether setup pages are allowed while talk keys are active. By default, in Standard Intercom Mode, page changes are allowed when talk keys are active. However, the default in Alternate Intercom Mode does not allow page changes to occur when talk keys are active.

Available options:

Auto - The default is followed depending on the Intercom Mode: Standard or Alternate

Always Allow - Page changes are allowed while Talk Keys are active.

No Talk Keys - Page changes are not allowed while talk keys are active. A red bar appears above/below the keys

signifying page changes are not allowed. If the talk key is turned off, the red bar turns blue and

pages can be done.

To configure page change operation, do the following:

- 1. Starting at the Service Page Change menu, select Page Change.
- 2. Press SEL.

Auto, Always Allow, and No Talk Keys appear.



- 3. Using the arrow keys, select the page change option you desire.
- 4. Press SEL.

A blue arrow appears next to the selection.

Service Menu, Reset Cfg

Reset Cfg restores all custom settings to the defaults and erases all stored auto-dial numbers.

To reset the keypanel configuration, do the following:

1. Starting at the Service|Reset Cfg menu, select **Do Reset**.



2. Press SEL.

Configuration Reset appears in the display window.



Service Menu, RVON Setup

The RVON Setup menu option is used to configure the RVON-2 and/or RVON-I/O IP Address for the CLD keypanel.

NOTE: The following instructions show how to configure the RVON-2 Network Address. You can also use these instructions to configure the RVON-I/O Address as well.

To configure the IP Address for the RVON-2, do the following:

- 1. Starting at the Service RVON Setup menu, select RVON-2.
- 2. Press SEL.

IP Address, Gateway, and Netmask appear in the display window.



3. Using the arrow keys, select **IP Address**.



4. Press SEL.

The IP Address appears with the first octet blinking in the display window.

5. Using the number pad, enter the **first octet number** in the IP Address.



6. Press SEL.

The focus shifts to the second octet.

- 7. Using the number pad, enter the **second octet number** in the IP Address.
- 8. Press SEL.

The focus shifts to the third octet.

- **9.** Using the number pad, enter the **third octet number** in the IP Address.
- 10. Press SEL.

The focus shifts to the last octet.

- 11. Using the number pad, enter the **last octet number** in the IP Address.
- 12. Press SEL.

The RVON Setup menu options appear in the display window.

To configure the Gateway Address, do the following:

1. Using the arrow keys, select **Gateway**.



2. Press SEL.

The Gateway Address appears with the first octet blinking in the display window.

- 3. Using the number pad, enter the **first octet number** in the Gateway Address.
- 4. Press SEL.

The focus shifts to the second octet.

- 5. Using the number pad, enter the **second octet number** in the Gateway Address.
- 6. Press SEL.

The focus shifts to the third octet.

- 7. Using the number pad, enter the **third octet number** in the Gateway Address.
- 8. Press SEL.

The focus shifts to the last octet.

- 9. Using the number pad, enter the **last octet number** in the Gateway Address.
- 10. Press SEL.

The RVON Setup menu options appear in the display window.

To configure the Netmask Address, do the following:

1. Using the arrow keys, select **Netmask**.



2. Press SEL.

The Netmask Address appears with the first octet blinking in the display window.

- 3. Using the number pad, enter the **first octet number** in the Netmask Address.
- 4. Press SEL.

The focus shifts to the second octet.

- **5.** Using the number pad, enter the **second octet number** in the Netmask Address.
- 6. Press SEL.

The focus shifts to the third octet.

- 7. Using the number pad, enter the **third octet number** in the Netmask Address.
- 8. Press SEL.

The focus shifts to the last octet.

- 9. Using the number pad, enter the **last octet number** in the Netmask Address.
- 10. Press SEL.

The RVON Setup menu options appear in the display window.

11. Press CLR to exit menu mode.

Service Menu, Scr Saver

Scr Saver allows the user to configure the way the screen saver feature operates.



FIGURE 37. Service Menu - Screen Saver Options

Available selections for this menu are:

Activate allows the user to activate the screen saver with no delay.

Delay can be set to activate the screen saver after 30 minutes or up to 12 hours.

Mode can be set to scroll text or shut the display off (sleep mode).

The default setting for this option is:

Delay One (1) hour

Mode Text

NOTE: Any action done to the keypanel, directly or indirectly, takes the keypanel out of screen saver mode.

To manually activate the screen saver, do the following:

1. Starting at the Service|Scrn Saver menu, select Activate.



2. Press SEL.

The screen saver is activated on the keypanel display window.

To set the delay option for the keypanel screen saver, do the following:

- 1. Starting at the Service|Scrn Saver menu, select **Delay**.
- 2. Press SEL.

Delay Time: 1 Hour ♥ appears.



- 3. Using the arrow keys, select the amount of time you want to expire before the screen saver activates.
- 4. Press SEL.

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To set the screen saver mode (type), do the following:

- 1. Starting at the Service|Scrn Saver menu, select **Mode**.
- 2. Press SEL.

Display Off and Text appear in the display window.



- 3. Using the arrow keys, select **Display Off** to put the display into sleep mode when the screen saver activates. OR
- Using the arrow keys, select **Text** to have scrolling text when the screen saver activates.
- 4. Press SEL.

Service Menu, Set Address

Set Address is used to indicate the poll ID of the KP 12 CLD. See "KP 12 CLD Addressing" on page 31 to determine if you need to set the KP 12 CLD address. The poll ID is the number (or address) at which audio is sent to and from the keypanel to the Matrix. The Poll ID number is directly related to the connection port on the breakout panel.

EXAMPLE: If the KP 12 CLD is connected to the breakout panel on J2, the poll ID for the keypanel is 2.

Available options for the Poll ID are I-8.

To set the address for the KP 12 CLD, do the following:

- 1. Starting at the Service Set Address menu, select the **poll ID** for the keypanel.
- 2. Press SEL.

Cancel or Save and Restart appear in the display window.



3. Using the arrow keys, scroll to Save and Restart.



4. Press SEL.

Restarting.... appears. The keypanel resets. Once the restart is complete, the Poll ID is enabled.



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Service Menu, Snoop Tally

Snoop Tally, when enabled indicates to keypanel users that somebody is listening to them. For example, snoop tallies are displayed on keypanel 1, if there is another keypanel (2) which is listening to keypanel 1 via a point-to-point or a special list, but is not talking to keypanel 1. Snoop tallies are suppressed if keypanel 1 has any talk keys turned on, or if the hot mic is not enabled. Snoop tallies are supported on KP-32 family keypanels.

NOTE: Hot Mic must be activated on the keypanel for snoop tally to work. For more information, see "Audio Options Menu, Matrix Out" on page 87.

By default, snoop tally is disabled (no chime).

To enable snoop tallies on the keypanel, do the following:

1. Starting at the Service|Snoop Tally menu, select Chime.



2. Press SEL.

A blue arrow appears next to Chime. Snoop Tally is enabled.

To disable snoop tallies on the keypanel, do the following:

3. Starting at the Service|Snoop Tally menu, select **No Chime**.



4. Press SEL.

A blue arrow appears next to No Chime. Snoop Tally is disabled.

Service Menu, Test Panel

Test Panel allows the user to check the operation of all keys and displays, as shown in, on the KP 12 CLD.



FIGURE 38. Service Menu, Test Panel

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 TABLE 9. Test Panel Key Descriptions

Display A	Action	
%%%%	All alpha numeric displays show a % symbol when in Test Panel mode.	
ОК І	Press down on any key.	
ОК	Press up on any key.	
>>> I	Press to the right on any key (excluding the MIC MUTE/MIC SEL and CLR/CWW).	
<<< I	Press to the left on any key (excluding the MIC MUTE/MIC SEL and CLR/CWW).	
<-AUX>	Rotate the Aux Volume encoder knob counterclockwise.	
<+AUX> I	Rotate the Aux Volume encoder knob clockwise.	
<-MAIN>	Rotate the Main Volume encoder knob counterclockwise.	
<+MAIN>	Rotate the Main Volume encoder knob clockwise.	
<-MIC>	Press left on the MIC MUTE/MIC SEL key.	
<+MIC>	Press right on the MIC MUTE/MIC SEL key.	
<mute></mute>	Press up on the MIC MUTE/MIC SEL key.	
<mic></mic>	Press down on the MIC MUTE/MIC SEL key.	
<-CWW> I	Press left on the CLR/CWW key.	
<+CWW> I	Press right on the CLR/CWW key.	
<clr></clr>	Press up on the CLR/CWW key.	
<cww></cww>	Press down on the CLR/CWW key.	
<menu> I</menu>	Press the MENU button.	
<fwd></fwd>	Press the FWD button.	
<back></back>	Press the BACK button.	
<upg></upg>	Press the UPG button.	

To **enable the test panel**, do the following:

- 1. On the KP 12 CLD keypad, press **MENU**. *The Information menu appears*.
- 2. Using the arrow keys, select **Service**.
- 3. Press SEL.
 - The Service submenu appears in the display window.
- 4. Using the arrow keys, select **Test Panel**.
- 5. Press SEL.
 - The Test Panel display appears.
- **6.** Using Table 9 on page 148, test the **KP 12 CLD keys**.

Telephone Operation

NOTE: Telephone operation requires an optional **TIF** (Telephone Interface). You must assign an intercom key to talk/listen to the TIF. We recommend a talk + auto follow assignment. See the TIF User Manual for specific TIF configuration options. You can find this manual at www.rtsintercoms.com

Receiving A Phone Call

When there is an incoming telephone call, the TIF alpha begins to blink.

To receive a phone call, do the following:

> Press the calling keypanel **key** to answer the call.

NOTE: The TIF assignments tally when the phone is ringing. By default, the assignments also tally while the phone is off-hook. This operation can be disabled by selecting *Don't generate tallies for TIF or trunk use* check box in AZedit (*Options*|*Intercom Configuration*|*Options* tab).

Dialing and Hanging Up Using KP 12 CLD

NOTE: Auto Dial only appears in the TIF menu options when auto dial numbers are configured.

Manual Dial

To manually dial on the KP 12 CLD, do the following:

- 1. On the KP 12 CLD, press the **TIF** key up to turn listen on.
- 2. Press the **TIF** key down to turn the Talk key on. *Auto Dial, Hang Up, Manual Dial, and Redial appear in the display.*
- 3. Using the up or down key, select Manual Dial.



4. Press SEL.

Dial: appears in the display.

5. Using the keypad, dial the **number** you want to call.



6. Press SEL.

The call is placed.

Keypanel Hang Up

To hang up the telephone from the KP 12 CLD, do the following:

- 1. On the KP 12 CLD, press the **TIF** key down to turn it on. *Auto Dial, Hang Up, Manual Dial, and Redial appear in the display.*
- 2. Using the up or down key, select **Hang Up**.



3. Press SEL.

The call is disconnected.

To program a CLD UPG key to activate the TIF key, do the following:

1. In Default mode, press 0.

OR

In Classic mode, press 4.

Dial and Drop appear in the display.

2. Using the up or down key, select **Dial**.

Tap Key appears in the display.

3. Press and hold the desired **UPG button** (1 or 2) to which you want to program the TIF activation. *The message Menu position saved appears and the TIF activation is assigned to the key.*

To program a CLD UPG key to hang up the TIF key, do the following:

1. In Default mode, press 0.

OR

In Classic mode, press 4.

Dial and Drop appear in the display.

2. Using the up or down key, select **Drop**. *Tap Key appears in the display*.

3. Press and hold the desired **UPG button** (1 or 2) to which you want to program Hang Up. *The message Menu position saved appears and the TIF activation is assigned to the key.*

To redial a phone number on the KP 12 CLD, do the following:

- 1. On the KP 12 CLD, press the **TIF listen** key on.
- 2. On the KP 12 CLD, press the **TIF talk** key on. *Auto Dial, Hang Up, Manual Dial, and Redial appear in the display.*
- 3. Using the up or down key, select **Redial**.



4. Press SEL.

The last dialed number is connected. The TIF key alpha flashes and Hang Up appears in the display.



5. Press **SEL** to disconnect the call. *The call is ended.*

Auto Dial

To autodial a phone number on the KP 12 CLD, do the following:

- 1. On the KP 12 CLD, press the **TIF listen** key on.
- 2. On the KP 12 CLD, press the **TIF talk** key on. *Hang Up, Icom ADial, Lcl ADial, Manual Dial, Redial appear in the display.*
- 3. Using the up or down key, select **Auto Dial**.



4. Press SEL.

The Auto Dial numbers appear in the display.



- 5. Using the up or down key, select the **Auto Dial number** you want to call.
- 6. Press SEL.

The call is placed. The TIF key alpha flashes and Hang Up appears in the display.

Centralized Auto Dials

The **Centralized Auto Dials** allows up to 999 phone numbers to be stored in the intercom as a scrollable list from the keypanels. Auto dials are telephone numbers frequently dialed and are maintained using the AZedit Intercom Configuration Software. Customizing auto dial numbers in AZedit is as easy as entering the telephone number and selecting whether or not it is scroll enabled.

The following firmware versions must be loaded to use centralized auto dials in your intercom system:

- AZedit Intercom Software V3.6.1 or later
- MCII-e V2.0.4 or later
- PeriphII-e (Ethernet) V1.20.0 or later
- Periph Controller (Standard) V10.20.0 or later
- DBX V1.20.0 or later
- Cronus Firmware V1.5 or later
- Zeus II Firmware V3.4.0 or later
- Zeus III Firmware V1.0.0 or later
- KP 12 CLD Firmware V1.0.4 or later
- KP-32 Firmware V2.1.1 or later

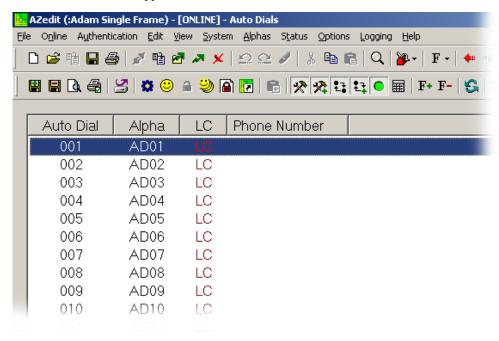
Centralized Auto Dial from the KP 12 CLD

The **Centralized Auto Dial** can be used two (2) different ways, with TIF assignments or with keypad sequences. You can also configure locally stored auto dial numbers on the CLD keypanel. For more information, see "Key Options Menu, Auto Dial" on page 108.

NOTE: The KP-32 standard keypanel supports centralized auto dial numbers on firmware version 2.1.1 or later.

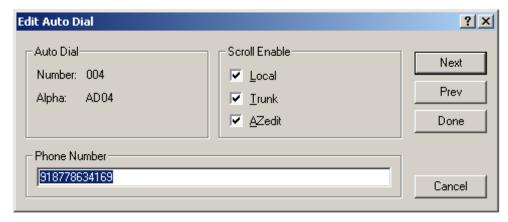
To access the Auto Dials window, do the following:

> From the System menu in AZedit, select **Auto Dial**. *The Auto Dials window appears*.



To add a telephone number to the Auto Dial database, do the following:

- 1. From the System menu in AZedit, select **Auto Dial**. *The Auto Dial window appears*.
- **2.** Double-click an **auto dial number** from the Auto Dial column. *The Edit Auto Dial window appears*.



3. From the Scroll Enable group box, select the **scroll enable check box(es)** you want to configure for the auto dial number.

4. In the Phone Number field, enter the **telephone number** you want to have for that auto dial sequence.

NOTE: *99 is used to create a pause in dialing. Pauses are required to dial extensions or select preset options.

5. Click **Next** to enter another number.

The next blank Edit Auto Dials window appears.

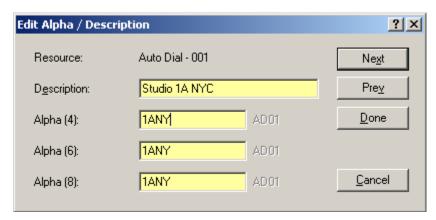
OR

Click **Done** to close the Edit Auto Dial window.

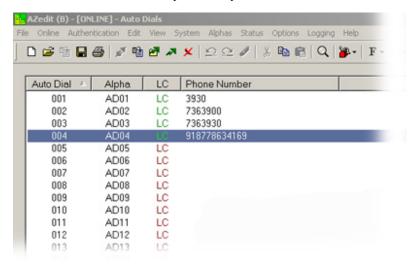
The Auto Dials window appears with the new number in the list.

To add a description to the telephone number in the Auto Dial database, do the following:

- 1. From the Alphas menu in AZedit, select **Auto Dial**. *The Auto Dial Alphas window appears*.
- **2.** Double-click the **AD resource number** you want to add the description to. *The Edit Alpha/Description window appears*.



- 3. In the Description field, enter a unique description for the auto dial number. For example, Studio 1A NYC.
- 4. In the Alpha 4, Alpha 6, or Alpha 8 field, enter a recognizable 4-, 6- or 8-character Alpha. For example, 1ANY.
- Click **Done** when you are finished. OR
 - Click **Next** to enter another Alpha Description.



- **6.** From the Online menu in AZedit, select **Send Changes**. *The Send Changes window appears*.
- 7. Click OK.

The changes are sent to the intercom and the telephone number is added to the intercom system auto dial table.

To use centralized auto dial numbers on the KP 12 CLD, do the following:

1. On the KP 12 CLD, press the **key with the TIF assignment**. *Hang Up, Icom ADial, Manual Dial, and Redial appear in the display.*



- 2. Using the up or down key, scroll to **Icom ADial**.
- 3. Press SEL.

You enter the centralized auto dial list. A scrollable list of available Auto Dial numbers appear in the display.

- 4. Using the up or down key, scroll to the desired auto dial number.
- 5. Press SEL.

The number connects.

To use centralized auto dial numbers with KP 12 CLD keypad sequences, do the following:

1. When using the Default keypad mode, press **0**.

OR

When using the Classic keypad mode, press 4.

Dial and Drop appear in the display.



2. Using the up or down key, scroll to **Dial**.

OR

Press the **Dial key** on the keypanel.

- 3. Press SEL.
 - Tap Key appears.
- 4. Press the TIF assignment key.
 - A dial tone is heard.
- 5. Using the keypad, enter #NNN (where NNN is the Auto Dial number assignment in AZedit—for example, #001). *The number is dialed.*

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KP 12 CLD Keypad Quick Reference

Keypad Sequence Introduction

Keypad sequences are a series of keypad strokes made on the KP 12 CLD, which in turn displays specific information (such as keypanel ID, talk level 2 assignments, etc.). Keypanel sequences are shortcuts via the KP 12 CLD keypad.

Available options for this field are: Classic and Default.

Classic sequence 2, is the previous standard for KP 12 and KP 96 keypanels.

Default sequence 1, is the new standard for the KP 12 CLD. This sequence is based upon an alternate key

sequence for the KP 12 keypanel.

NOTE: The type of sequence used is selected through the Service menu, under Keypad (*Service*|*Keypad*|*Sequences*). For more information, see "Service Menu, Keypad" on page 132.

As with other keypanels, the KP 12 CLD allows you to lock the entire menu or the service menu. For more information on how to lock the menu, see the AZedit user manual.

The following are the different sequences available for each of the keypad sequence types:

Classic Keypad Sequence

Keypad Description



7, <key></key>	Copy the CWW to a key
0,8,1	Show panel ID
0,8,2	Show talk level 2 assignments
0,8,3	Show listen assignments
0,8,7	Enable tone
0,8,0	Enter test mode
3,1,SEL (PGM), sten key>	Program a listen key with an AL assignment
3,2,SEL (PGM), < listen key>	Program a listen key with an AF assignment
3,3,SEL (PGM), sten key>	Program a listen key with an AM assignment
3,4,SEL (PGM), listen key>	Program a listen key with an AR assignment
3,7,SEL (PGM), listen key>	Program a listen key with an AT assignment
3,5,SEL (PGM), <talk key=""></talk>	Program a talk key with an AC assignment
0,8,8	Show setup pages
0,8,9	Enter diagnostic menu
0,6	Display list of matrix names, scroll up
0,9	Display list of matrix names, scroll down
0,5,6	Display list of function types, scroll up
0,5,9	Display list of function types, scroll down
0,7, <key>, <key></key></key>	Copy the first key to the second key
8, <page>, PGM, <key></key></page>	Select setup page for row of keys
4, PGM, <key></key>	Enter dial mode on TIF on key
4, CLR, <key></key>	Hang up TIF on key
6	Enter scroll list mode, scroll up
9	Enter scroll list mode, scroll down
5	Enter pre-fix/fast scroll mode

Classic Keypad Sequence			
Keypad	Description		

The following sequences also require the assignments be marked as "Local" scroll enable in AZedit.

NOTE: IFB, RY, ISO, and IFSL are not locally scrollable, by default.

1, <port>, SEL (PGM), <key></key></port>	Program a key with a port assignment
2, <pl num="">, SEL (PGM), <key></key></pl>	Program a key with a PL assignment
0,1, <sl num="">, SEL (PGM), <key></key></sl>	Program a key with a SL assignment
0,2, <ifb num="">, SEL (PGM), <key></key></ifb>	Program a key with an IFB assignment
0,3, <iso num="">, SEL (PGM), <key></key></iso>	Program a key with an ISO assignment
0,4, <ry num="">, SEL (PGM), <key></key></ry>	Program a key with an RY assignment

	Default Keypad Sequence
Button/Keypad Sequence	Description



7, <key></key>	Copy the CWW to a key
0,0,0,8,1	Show panel ID
0,0,0,8,2	Show talk level 2 assignments
0,0,0,8,3	Show listen assignments
0,0,0,8,7	Enable tone
0,0,0,8,0	Enter test mode
0,0,0,8,8	Show setup pages
0,0,3,1,SEL, sten key>	Program a listen key with an AL assignment
0,0,3,2,SEL, sten key>	Program a listen key with an AF assignment
0,0,3,3,SEL, sten key>	Program a listen key with an AM assignment
0,0,3,4,SEL, sten key>	Program a listen key with an AR assignment
0,0,3,7,SEL, listen key> Program a listen key with an AT assignment	
0,0,3,5,SEL, <talk key=""></talk>	Program a talk key with an AC assignment
1	Display scroll list of matrix names
4	Display scroll list of function types
2	Enter pre-fix/fast scroll mode, scroll up
5	Enter pre-fix/fast scroll mode, scroll down
3	Enter scroll list mode, scroll up
6	Enter scroll list mode, scroll down
7, SEL <key>, <key></key></key>	Copy first key to second key
8, <page>, <key></key></page>	Select the setup page for a row of keys
0, SEL, <key></key>	Enter dial mode on TIF key
0, CLR, <key></key>	Hang up TIF key

Default Keypad Sequence Button/Keypad Sequence Description The following sequences also require the assignments be marked as "Local" scroll enable in AZedit. NOTE: IFB, RY, ISO, and IFSL are not locally scrollable, by default. 0,0,1, <port>, SEL, <key> Program a key with a port assignment 0,0,2, <PL num>, SEL, <key> Program a key with a PL assignment 0,0,0,1, <SL num>, SEL, <key> Program a key with a SL assignment 0,0,0,2, <IFB num>, SEL, <key> Program a key with an IFB assignment 0,0,0,3, <ISO num>, SEL, <key> Program a key with an ISO assignment 0,0,0,4, <RY num>, SEL, <key> Program a key with an RY assignment

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Keypanel Menu Quick Reference

KP 12 CLD System Menu - with GPI 12 CLD Expansion Unit And RVON-2 Option Card

Audi	io C	ptic	ons		
DIM					
F	Head	set			
		Fron	•		
			Dim Volum	e: 0 dB	
		Rear			
			Dim Volum	e: 0 dB	
S	Speal	ker			
		Fron	t		
			Dim Volum	e: -8dB	
		Rear			
			Dim Volum	e: -8dB	
DSP F	unc	tions	S		
E	Equa	lizati	ion		
		Fro	nt Spkr	<pre><pre>preset list></pre></pre>	
		Rea	r Left		• none
		Rea	r Right		• preset #1
			_		• preset #2
					• preset #3
					• preset #4
					• preset #5

Audio Options	
Filters	
Aux In 1	Filter List
Aux In 2	• none
Aux In 3	• 9600Hz
Front Hdst	
Front Mic	
Matrix In	
Rear Hdst	
Rear Mic	
RVON Ch	1
RVON Chi	2
Gating	
Aux In 1	Threshold Disabled
Aux In 2	Threshold Disabled
Aux In 3	Threshold Disabled
Front Hdst	Threshold Disabled
Front Mic	Threshold Disabled
Matrix In	Threshold Disabled
Rear Hdst	Threshold Disabled
Rear Mic	Threshold Disabled
RVON Ch	1 Threshold Disabled
RVON Chi	Threshold Disabled
Metering	
Aux In 1	
Aux In 2	
Aux In 3	
Front Hdst	
Front Mic	
Matrix In	
None	
Rear Hdst	
Rear Mic	
RVON Ch	
RVON Chi	2

Audio C	Options			
Mixing				
	Front Hdst	Source List (Not all sources		
Both		are available to be mixed to		
Left		all destinations)		
Right		 Front Mic 		
	Front Spkr	 Rear Mic 		
	Preamp Out	 Front Hdst 		
	Rear Hdst	Rear Hdst		
	Both	 Matrix 		
	Left	• Aux In 1		
	Right	• Aux In 2		
	Rear Spkr			
	Both	• Aux In 3		
	Left	• RVON Ch1		
	Right	• RVON Ch 2		
	RVON Ch 1			
	RVON Ch 2			
	To Matrix			
Headset M Front				
	Auto-mute	Disabled		
	Auto-mute	Enabled		
	Mode	Disabled		
	Mode	Enabled		
	Tr.	Switched*		
	Type	Auto-Detect		
		Dynamic		
		Electret		
Rear				
	Auto-mute	Disabled		
		Enabled		
	Mode	Disabled		
		Enabled		
		Switched*		
	Type	Auto-Detect		
		Dynamic		
		Electret		
Headset S	pkr			
Fron	t			
	Auto-Transfer			
	Disabled			
	Enabled*			

1 1:				
Audio Options				
Mode				
		Chan, Right Chan		
	Alw	ays On*		
	Disa	bled		
	Swit	ched		
Rear				
Auto-	Auto-Transfer			
	Disabled			
	Enabled*			
Mode	;			
	Both, Left	Chan, Right Chan		
	Alw	ays On*		
	Disa	bled		
	Swit	ched		
Volume Co				
Gange	ed			
Indivi	idual			
Key Volumes				
Adjust				
Enabl				
Disab	led			
Reset				
Cance				
	Do Reset Volumes Reset			
LCP 16 CLD	1.6			
Encoder 1				
Inputs	S	Aux 1		
		Aux 2		
		Aux 3		
		Matrix In		
		RVON Ch1 RVON Ch2		
Outpu	ıts	RVOIV CIIZ		
Outpe	113	Both Hdsts		
		Both Spkrs		
		Front Hdst		
		Front Spkr		
Rear Hdst Rear Spkr				
Sideto	one	1		
Unass	signed			
Matrix Out				
Normal				
Hot Mic				

Audio Options
Speaker
Front
Both, Left Chan, Right Chan
Always On*
Disabled
Switched
Rear
Both, Left Chan, Right Chan
Always On*
Disabled
Switched
Volume Control
Ganged
Individual
Tone Gen
Frequency
1KHz
500Hz*
Tone Off*
Tone On

Display			
Assign Type	Assign Type		
Key Assign Type			
Auto Dial			
1-Touch Key Ass	ignments		
Chans On			
List of Callers			
Chime			
Chime Keys			
Exclusive			
Exclusive Keys			
Key Groups			
Group 1	Group 1 Members		
Group 2	Group 2 Members		
Group 3	Group 3 Members		
Group 4	Group 4 Members		
Key List			
List of Hidden Assignments			
LCP 16 CLD			
LCP 16 CLD Assignments			
Level 2			

Display		
Level 2 Assignments		
Listen		
Listen Assignments		
Matrix		
Key Assign Matrices		
Panel ID		
Panel Alpha: N###		
Solo Key		
Solo Key		
Version		
Version X.X.X		

Key Assign Matrix Matrix List: Pt-to-Pt Party Line IFB Spcl List Sys Relay Camera ISO UPL IFB SL Pt-to-Pt Scroll List: Talk Lvl 1 Listen Talk + AFTalk + ALTalk + ATTalk + AMTalk + ARTalk Lvl 2

Kev	Assign	
	Line	
ı uı cy	Scroll List:	
	•	Talk Lvl 1
	•	Listen
		Talk + AF
		Talk + AL
	•	
	•	Talk + AT
	•	Talk + AM
	•	Talk + AR
	•	Talk Lvl 2
IFB	0 11 1	
	Scroll List:	m 11 2 1 4
	•	Talk Lvl 1
	•	Listen
	•	Talk + AF
	•	Talk + AL
	•	Talk + AT
	•	Talk + AM
	•	Talk + AR
	•	Talk Lvl 2
Speci	al List	
	Scroll List:	
	•	Talk Lvl 1
	•	Listen
	•	Talk + AF
	•	Talk + AL
	•	Talk + AT
	•	Talk + AM
		Talk + AR
		Talk Lvl 2
Sys R	Relav	TWIN LIVE Z
~ J 5 1	Scroll List:	
	•	Talk Lvl 1
		Listen
		Talk + AF
		Talk + AL
	•	
	•	Talk + AT
	•	Talk + AM
	•	Talk + AR

Talk Lvl 2

Key Assign **Key Options** Camera ISO **Auto Dial** Scroll List: Numbers 1-100 Talk Lvl 1 1-Touch Listen Tap Key Talk + AF Assign Preconfigured #s Talk + AL Chime Talk + AT Select Keys Talk + AM Tap Keys Talk + ARList of Callers Duration: 5 seconds Talk Lvl 2 **UPL Resource** Scroll List: Clear Talk Lvl 1 Tap Key **Exclusive** Listen Tap Key Talk + AF**Key Groups** Talk + ALGroup 1 - 4 Talk + ATTap Master Key Talk + AM Tap Slave Keys Talk + ARLatching Talk Lvl 2 Disabled **IFB Spcl List** Enabled* Scroll List: Lock Talk Lvl 1 Tap Key Listen **Panel Swap** Control Talk + AF**GPI Inputs** Talk + ALOpto 1-4 Talk + AT Cycle To Talk + AM Talk + ARNext Previous Talk Lvl 2 **Auto Func** Switch To **MAIN** All Call EXP1 - EXP7 Auto Follow Auto Listen Toggle To EXP1 - EXP7 Auto Mute Unassigned Auto Recip **GPI** Outputs Auto Table Dim OC Out 1/OC Out 2 Cycle To Next

Previous

Key Options	RVON Offers		
Switch To	Keypanel		
MAIN	RVON-2		
EXP1 – EXP7	AIO (or RVON-I/O if connected to an RVON-I/O		
Toggle To	Aux Inputs		
EXP1 – EXP7	RVON Ch1		
Unassigned	RVON Ch2		
Relay 1 – Relay 3	Save Configuration		
Cycle To	Configuration Saved		
Next			
Previous			
Switch To	Service		
MAIN	Alphas		
EXP1 – EXP7	4 Chars		
	Cancel		
Toggle To	Save and Restart		
EXP1 – EXP7	6 Chars		
Keypad	Cancel		
BACK/FWD/UPG	Save and Restart		
Cycle To	8 Chars		
Next	Cancel		
Previous	Save and Restart		
Switch To	8-Chars (UNICODE)		
MAIN	Cancel		
EXP1 – EXP7	Save and Restart		
Toggle To	Aux/Mtx Inputs Aux In 1		
EXP1 – EXP7	Disabled		
Unassigned	Enabled		
Key States	Aux In 2		
Force Off	Disabled		
Retain	Enabled		
Virtual EKPs	Ganged		
None	Aux In 3		
EKP1 - EKP7	Disabled Enabled		
Solo	Matrix In		
Tap Key	Disabled		
Tallies	Enabled		
15 seconds* Indefinite	RVON Ch 1		
Tallies	Disabled		
All Keys	Enabled		
Talk Keys	RVON Ch2		
Listen Keys	Disabled		
	Enabled		

Service	Service
Baud Rate	Sequences
Auto Baud	Classic
9600K Baud	Default*
76.8K Baud	Local GPIO
Display Dim	GPIO Inputs
All Panels	Opto 1–4
Brightness	Function
	Key Group
	Group 1–4
Expansion	Edge
Both Brightness	Level*
Left	Not Assigned*
Right	Talk Key
Main Panel	Tap Key
Both Brightness	Mode
Left	Normal*
Right Footswitch	Track Output
Mode	GPIO Outputs
Disabled*	OC Out 1 and 2
Enabled	Not Assigned
Latched Keys	_
Retain*	Talk Key
Unlatched	Tap Key
Ganged Vols	UPG
Disappearing	Relay 1-3
Fixed Offset	Not Assigned
Intercom Mode	Talk Key
Alternate	Tap Key
Cancel	UPG
Save and Restart	Page Change
Standard	Auto
Cancel	Always Allow
Save and Restart	No Talk Keys
Key View Suppress AF*	Reset Cfg
Talk/Lisn	Cancel
Talk Only	Do Reset
Keypad	Configuration Reset RVON Setup
Backlight	RVON 2
Activate*	IP Address
Always Off	X.X.X.X
Always On	Gateway
SEL Key	X,X,X,X
Auto*	Netmask
Assign Groups	
Quick Assign	X.X.X.X

Ser	rvice				
	RVON-I/O				
	IP Address				
	X.X.X.X				
	Gateway				
	X.X.X.X				
	Netmask				
	X.X.X.X				
Scrn	Saver				
	Activate				
	Delay				
	Delay Time: 1 Hour*				
	Mode				
	Display Off				
	Text*				
Set A	Address				
	Poll ID: 1*				
Snoop Tally					
	Chime				
	No Chime*				
Test	Test Panel				
	Test Panel				

KP 12 CLD System Menu - with GPI 12 CLD Expansion Unit And OKI-2 Option Card

Au	dio (Options							
DIM									
	Head	eadset							
		Front							
		Dim Volume	e: 0 dB						
		Rear							
	-	Dim Volume: 0 dB							
	Spea								
		Front							
		Dim Volume	e: -8dB						
		Rear	0.10						
. ~ ~	_	Dim Volume	e: -8dB						
DSP		ctions							
	Equa	alization	. 11						
		Front Spkr	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>						
		Rear Left	• none						
		Rear Right	• preset #1						
			• preset #2						
			• preset #3						
			• preset #4						
			• preset #5						
	Filte	re	Preset π3						
	Titte	Aux In 1	Filter List						
		Aux In 1 Aux In 2							
		Aux In 3	• none						
		Front Hdst	• 9600Hz						
		Front Mic							
		Matrix In							
		Rear Hdst							
		Rear Mic							
		OKI Ch1							
		OKI Ch2							
	Gati								
		Aux In 1	Threshold Disabled						
		Aux In 2	Threshold Disabled						
		Aux In 3	Threshold Disabled						
		Front Hdst	Threshold Disabled						
		Front Mic	Threshold Disabled						
		Matrix In	Threshold Disabled						
		Rear Hdst	Threshold Disabled						
		Rear Mic	Threshold Disabled						
		OKI Ch1	Threshold Disabled						
		OKI Ch2	Threshold Disabled						

Audio Options				
Metering				
Aux In 1				
Aux In 2				
Aux In 3				
Front Hdst				
Front Mic				
Matrix In				
None				
Rear Hdst				
Rear Mic				
OKI Ch1				
OKI Ch2				
Mixing				
Front Hdst	Source List (Not all sources			
Both	are available to be mixed to			
Left	all destinations)			
Right	 Front Mic 			
Front Spkr	 Rear Mic 			
Preamp Out	Front Hdst			
Rear Hdst	Rear Hdst			
Both				
Left	• Matrix			
Right	• Aux In 1			
Rear Spkr	• Aux In 2			
Both	• Aux In 3			
Left	OKI Ch1			
Right	OKI Ch 2			
OKI Ch 1				
OKI Ch 2				
To Matrix				
Headset Mic				
Front				
Auto-mute	Disabled			
	Enabled			
Mode	Disabled			
	Enabled			
	Switched*			
Type	Auto-Detect			
-JP*	Dynamic			
	Electret			
Rear	Licellet			
Auto-mute	Disabled			
Auto-mute	Enabled			
M 1				
Mode	Disabled			
	Enabled			
	Switched*			

Audio (Optio	ons		
	Туре			Auto-Detect
	• 1			Dynamic
				Electret
Headset S	Headset Spkr			
Fron	_			
	Auto-Transfer			
	Disabled		bled	
	Enabled*		led*	
	Mod	e		
		Both	, Left	Chan, Right Chan
			Alwa	ays On*
			Disa	bled
			Swit	ched
Rear				
	Auto	-Trans	sfer	
		Disa	bled	
		Enab	led*	
	Mod	e		
		Both	, Left	Chan, Right Chan
	Always On*			
	Disabled			
	Switched		ched	
Volu	Volume Control			
	Ganged			
***	Fixed Offset			
Key Volu				
Adju	ısı Enab	led*		
	Disal			
Rese		0104		
	Canc	el		
	Do R	leset		Volumes Reset
LCP 16 C				
Enco	oder 1			
	Input	ts		Aux 1
				Aux 2
				Aux 3 Matrix In
				OKI Ch1
				OKI Ch2

Audio Options						
		Outputs Sidetone Unassigned	Both Hdsts Both Spkrs Front Hdst Front Spkr Rear Hdst Rear Spkr			
Mat	rix O					
	Nori					
	Hot					
Max	Volu					
	Head	dset Front Rear	Max Volume: +10dB Max Volume: +10dB			
Mic	Gain	ı				
	Adjı	ıst				
		Disabled Front Hdst Front Mic Rear Hdst Rear Mic				
	Leve	el				
		Front Hdst Front Mic Rear Hdst Rear Mic	Mic Gain: 0dB Mic Gain: 0dB Mic Gain: 0dB Mic Gain: 0dB			
Min	Min Volume					
	Head	dset Front	Min Volume: Mute			
		Rear	Min Volume: Mute			
	Spea	aker				
		Front	Min Volume: Mute			
		Rear	Min Volume: Mute			
Out	put L	evel				
	Outp	out Lvl: +8dB				
Pan	el Mi	c				
	Fron					
	Rear	Disabled Enabled Switched*				
	Kear	Disabled Enabled Switched*				
Prea	ımp (Out				
	Disabled					
	Hot	Mic				

Au	Audio Options				
	Switched*				
Side	tone				
	Leve				
			tone Level: -20dB		
	Mod	le			
			ays On		
		Disa			
		Swit	ched*		
Spea					
	Fron				
	Both, Left Chan, Right Chan				
			Always On*		
			Disabled		
			Switched		
	Rear				
	Both, Left Chan, Right Chan				
			Always On*		
	Disabled				
			Switched		
	Volu	ıme C	Control		
	Ganged				
	Individual				
Tone	Tone Gen				
	Frequency				
	1KHz				
	500Hz*				
	Tone Off*				
	Tone On				

Display Assign Type Key Assign Type **Auto Dial** 1-Touch Key Assignments **Chans On** List of Callers Chime Chime Keys **Exclusive Exclusive Keys Key Groups** Group 1 Group 1 Members Group 2 Group 2 Members Group 3 Group 3 Members Group 4 Group 4 Members

Display Key Assign **Party Line Key List** List of Hidden Assignments Scroll List: LCP 16 CLD Talk Lvl 1 LCP 16 CLD Assignments Listen Level 2 Talk + AFLevel 2 Assignments Talk + ALListen Talk + ATListen Assignments Talk + AM Matrix Talk + ARKey Assign Matrices Talk Lvl 2 Panel ID **IFB** Panel Alpha: N### Scroll List: Solo Key Talk Lvl 1 Solo Key Listen Version Talk + AFVersion X.X.X Talk + ALTalk + ATTalk + AM Key Assign Talk + ARMatrix Talk Lvl 2 Matrix List: **Special List** Pt-to-Pt Scroll List: Party Line Talk Lvl 1 **IFB** Listen Spcl List Talk + AFSys Relay Talk + ALCamera ISO Talk + ATUPL Talk + AMIFB SL Talk + ARPt-to-Pt Talk Lvl 2 Scroll List: Sys Relay Talk Lvl 1 Scroll List: Listen Talk Lvl 1 Talk + AFListen Talk + ALTalk + AFTalk + ATTalk + ALTalk + AM Talk + ATTalk + ARTalk + AM Talk Lvl 2 Talk + AR

Talk Lvl 2

<i>T</i> .		
Key Assign		Key Options
Camera ISO Scroll List:		Auto Dial Numbers
Scion List.	. Tall- Lad 1	1-100
	• Talk Lvl 1	1-Touch
	• Listen	Tap Key
	• Talk + AF	Assign Preconfigured #s
	• Talk + AL	Chime
	• Talk + AT	Select Keys
	• Talk + AM	Tap Keys
	• Talk + AR	List of Callers
	• Talk Lvl 2	Duration: 5 seconds
UPL Resource		Clear
Scroll List:		Tap Key
	• Talk Lvl 1	Exclusive
	• Listen	Tap Key
	• Talk + AF	Key Groups Group 1 - 4
	• Talk + AL	Tap Master Key
	• Talk + AT	
	• Talk + AM	Tap Slave Keys Latching
	• Talk + AR	Disabled
	• Talk Lvl 2	Enabled*
IFB Spcl List		Lock
Scroll List:		Tap Key
	• Talk Lvl 1	Panel Swap
	• Listen	Control
	• Talk + AF	GPI Inputs
	• Talk + AL	Opto 1-4
	• Talk + AT	Cycle To
	• Talk + AM	Next
	• Talk + AR	Previous
	• Talk Lvl 2	Switch To
Auto Func		MAIN
	All Call	EXP1 – EXP7
	Auto Follow	Toggle To
	Auto Listen	EXP1 – EXP7
	Auto Mute	Unassigned
	Auto Recip	GPI Outputs
	Auto Table	OC Out 1/OC Out 2
	• Dim	Cycle To
	Dim .	Next
		Previous
		11011045

Key Options	Save Configuration
Switch To	Configuration Saved
MAIN	
EXP1 – EXP7	
Toggle To	Service
EXP1 – EXP7	Alphas
Unassigned	4 Chars
Relay 1 – Relay 3	Cancel
Cycle To	Save and Restart
Next	6 Chars
Previous	Cancel
Switch To	Save and Restart
MAIN	8 Chars
EXP1 – EXP7	Cancel
	Save and Restart
Toggle To	8-Chars (UNICODE)
EXP1 – EXP7	Cancel
Keypad	Save and Restart
BACK/FWD/UPG	Aux/Mtx Inputs
Cycle To	Aux In 1
Next	Disabled
Previous	Enabled
Switch To	Aux In 2
MAIN	Disabled Enabled
EXP1 – EXP7	Ganged
Toggle To	Aux In 3
EXP1 – EXP7	Disabled
Unassigned	Enabled
Key States	Matrix In
Force Off	Disabled
Retain	Enabled
Virtual EKPs	OKI Ch 1
None	Disabled
EKP1 - EKP7	Enabled OKI Ch2
Solo	Disabled
Tap Key	Enabled
Tallies	Baud Rate
15 seconds*	Auto Baud
Indefinite	9600K Baud
Turn Off	76.8K Baud
All Keys	Display Dim
Talk Keys	All Panels
Listen Keys	Brightness

Service	Service				
Expansion	Group 1–4				
Both Brightness	Edge				
Left	Level*				
Right	Not Assigned*				
Main Panel	Talk Key				
Both Brightness	Tap Key				
Left					
Right	Mode				
Footswitch	Normal*				
Mode	Track Output				
Disabled*	GPIO Outputs				
Enable	OC Out 1 and 2				
Latched Keys	Not Assigned				
Retain*	Talk Key				
Unlatch	Tap Key				
Ganged Vols	UPG				
Disappearing Fixed Offset	Relay 1-3				
Intercom Mode	Not Assigned				
Alternate	Talk Key				
Cancel	Tap Key				
Save and Restart	UPG				
Standard	Page Change				
Cancel	Auto				
Save and Restart	Always Allow				
Key View	No Talk Keys				
Suppress AF*	Reset Cfg				
Talk/Lisn	Cancel				
Talk Only	Do Reset				
Keypad	Configuration Reset				
Backlight	Scrn Saver				
Activate*	Activate				
Always Off	Delay				
Always On	Delay Time: 1 Hour*				
SEL Key	Mode				
Auto*	Display Off				
Assign Groups	Text*				
Quick Assign	Set Address				
Sequences Classic	Poll ID: 1*				
Default*	Snoop Tally				
Local GPIO	Chime No Chime*				
GPIO Inputs	Test Panel				
Opto 1–4	Test Panel				
Function	105t I diloi				
Key Group					

KP 12 CLD System Menu - no Option Card or Expansion Unit

	1					
	dio C	ptio	ns			
DIM						
	Head	Iset	D: 1/1	0. ID		
	C		Dim Volume	: 0 dB		
	Spea	ker	D: 1/1	0.10		
DCD		.•	Dim Volume	: -8dB		
DSP	Func					
	Equa	lizatio	on			
	none preset #1 preset #2 preset #3 preset #4 preset #5					
	Filter	rs				
		Hdst	Mic	Filter I	List	
		Matr	ix In	•	none	
		Pane	l Mic	•	9600Hz	
	Gatir	1σ			700011Z	
	Gutin	Hdst	Mic	Thresh	old Disabled	
		Matr	1,110		old Disabled	
			l Mic		old Disabled	
	Mete		1 1,110	11110311	ora Disaorea	
		Hdst Mic Matrix In None Panel Mic				
	Mixi		1 1,110			
		Head	lset	Source	List (Not all	
		Spea	Both Left Chan Right Chan	source	s are available to be to all destinations) Hdst Mic Matrix	
		To M		•	Panel Mic	
Head	lset N	Iic				
	Auto	-Mute	e			
	Disabled					
	Enabled					
	Mode					
		Disal Enab Swite				
	Type					
		Auto	-Detect			

Au	dio C	Optio.	ns		
		Dyna	amic		
		Elect	ret		
Head	dset S	pkr			
	Aut	o-Tra	nsfer		
		Disabled			
		Ena	bled		
	Mo	de			
		Bot	h Left	Chan	Right Chan
		200		ıys On	_
			Disal	-	
			Swite		
Kow	Volui	noc	Switt	illeu	
ixcy	Adju				
	rajt	Disal	bled		
		Enab			
	Rese	et			
		Canc	el		
		Do R	Leset		Volumes Reset
LCP	16 C				
	Enco	oder 1			
		Input	ts		Matrix In
		Outp	ute		Mauix III
		Outp	uis		Both Hdsts
					Both Spkrs
					Front Hdst
					Front Spkr Rear Hdst
					Rear Spkr
		Sidet	one		
		Unas	signed		
Mat	rix O				
	Norr				
	Hot Mic				
Max	Max Volume				
	Headset Max Volume: +10dB				
Mic	Gain	Max	voium	e: +10	UD
IVIIC		ıst			
	Adjust Disabled				
	Hdst Mic				
	Panel Mic				
	Level				
		Hds	t Mic		
	Mic Gain: 0dB				
		Pane	l Mic		
			Mic G	ain: 0	dB

		LCI	P 16 CLD				
Headset			List of LCP 16 CLD Assignments				
Min Volume: Mute	e	Leve	Level 2				
Speaker		Level 2 Assignments					
Min Volume: Mute	e	List					
Dutput Level			Listen Assignments				
Output Lvl: +8dB		Mat					
Panel Mic			Key Assign Ma	trices			
Disabled		Panel ID					
Enabled		G 1	Panel Alpha: N	###			
Switched*			Key				
Sidetone		¥ 7	Solo				
Level	0 ID	Vers					
Sidetone Level: -2	oab	_	Version X.X.X				
Mode			y Assign				
Always On Disabled		Mat					
Switched*			Matrix List:				
Speaker				• Pt-to-Pt			
Always On				 Party Line 			
Disabled				• IFB			
Switched*				 Spcl List 			
Tone Gen				Sys Relay			
Frequency				 Camera ISO 			
1KHz				• UPL			
500Hz							
Tone Off*		D	D.	• IFB SL			
Tone On		Pt-te	Scroll List:				
Display			SCIOII LIST.	T 11 T 1 1			
Assign Type				• Talk Lvl 1			
Key Assign Type				• Listen			
Auto Dial				• Talk + AF			
1-Touch Key Assignmen	ts			• Talk + AL			
Chans On				• Talk + AT			
List of Callers				• Talk + AM			
Chime				• Talk + AR			
Chime Keys				• Talk Lvl 2			
Exclusive							
Exclusive Keys							
Key Groups							
Group 1	Group 1 Members						
Group 2	Group 2 Members						
Group 3	Group 3 Members						
Group 4	Group 4 Members		ty Line				

			T	
Key	Assign		Key Assign	
	Scroll List:		Scroll List:	
		• Talk Lvl 1		• Talk Lvl 1
		• Listen		• Listen
		• Talk + AF		• Talk + AF
		• Talk + AL		• Talk + AL
		• Talk + AT		• Talk + AT
		• Talk + AM		• Talk + AM
		• Talk + AR		• Talk + AR
		• Talk Lvl 2		• Talk Lvl 2
IFB			UPL Resource	
	Scroll List:		Scroll List:	
		• Talk Lvl 1		• Talk Lvl 1
		• Listen		• Listen
		• Talk + AF		• Talk + AF
		• Talk + AL		• Talk + AL
		• Talk + AT		• Talk + AT
		• Talk + AM		• Talk + AM
		• Talk + AR		• Talk + AR
		• Talk Lvl 2		• Talk Lvl 2
Speci	al List		IFB Spcl List	
•	Scroll List:		Scroll List:	
		• Talk Lvl 1		• Talk Lvl 1
		• Listen		• Listen
		• Talk + AF		• Talk + AF
		• Talk + AL		• Talk + AL
		• Talk + AT		• Talk + AT
		• Talk + AM		• Talk + AM
		• Talk + AR		• Talk + AR
		• Talk Lvl 2		• Talk Lvl 2
Sys R	elay		Auto Func	
	Scroll List:			All Call
		• Talk Lvl 1		 Auto Follow
		• Listen		Auto Listen
		• Talk + AF		Auto Mute
		• Talk + AL		Auto Recip
		• Talk + AT		Auto Recip Auto Table
		• Talk + AM		• Dim
		• Talk + AR		- Dilli
		• Talk Lvl 2		

Camera ISO

Key Options
Auto Dial
Numbers

Key Options	Key Options		
1-100			
1-Touch	Unassigned		
Tap Key	Relay 1 – Relay 3		
Assign Preconfigured #s	Cycle To		
Chime	Next		
Duration	Previous		
Duration: 5 seconds	Switch To		
Keys	MAIN		
Tap Key Clear	EXP1 – EXP7		
Tap Key	Toggle To		
Exclusive	EXP1 – EXP7		
Tap Key	Keypad		
Key Groups	BACK/FWD/UPG		
Group 1 – 4	Cycle To		
Tap Master Key	Next		
Tap Slave Keys	Previous		
Latching	Switch To		
Disabled	MAIN		
Enabled	EXP1 – EXP7		
Panel Swap Control	Toggle To		
	EXP1 – EXP7		
GPI Inputs	Unassigned		
Opto 1-4	Key States		
Cycle To	Force Off		
Next	Retain		
Previous	Virtual EKPs		
Switch To	None		
MAIN	EKP1 - EKP7		
EXP1 – EXP7	Solo		
Toggle To	Tap Key		
EXP1 – EXP7	Tallies 15 seconds*		
Unassigned	Indefinite		
GPI Outputs	Turn Off		
OC Out 1/OC Out 2	All Keys		
Cycle To	Talk Keys		
Next	Listen Keys		
Previous			
Switch To			
MAIN	Save Configuration		
EXP1 – EXP7	Configuration Saved		
Toggle To			
EXP1 – EXP7			

Sei	rvice			
Alpl				
· iip:	4 Ch	ars		
		Cancel		
		Save and Restart		
	6 Chars			
	o ch	Cancel		
		Save and Restart		
	8 Ch	Sur Culturatesture		
	o CII	Cancel		
	0.01	Save and Restart		
	8-Cn	ars (UNICODE)		
		Cancel		
	/3.F. =	Save and Restart		
Aux	/Mtx I	-		
	Matr	ix in Disabled		
		Enabled Enabled		
Ron	d Rate			
Dau		Baud		
		K Baud		
		K Baud		
Disp	lay Di			
_	-	anels		
		Brightness		
	Expa	nsion		
		Both	Brightness	
		Left		
		Right		
	Mair	Panel		
		Both	Brightness	
		Left		
Right Congod Vols				
Ganged Vols Disappearing				
	Fixed Offset			
Intercom Mode				
	Alter	nate		
		Cancel		
		Save and Restart		
	Standard			
		Cancel		
		Save and Restart		

Sei	rvice				
Key	Key View				
	Suppress AF*				
	Talk/Lisn				
	Talk Only				
Key	pad				
	Backlight				
	Activate*				
	Always Off				
	Always On				
	SEL Key				
	Auto*				
	Assign Groups				
	Quick Assign				
	Sequences				
	Default*				
	Classic				
Page	e Change				
	Auto				
	Always Allow				
	No Talk Keys				
Rese	et Cfg				
	Cancel				
	Do Reset				
	Configuration Reset				
Scrn	Saver				
	Activate				
	Delay				
	Delay Time: 1 hour*				
	Mode				
	Display Off				
	Text*				
Set A	Address				
	Poll ID: 1*				
Snoop Tally					
	Chime				
	No Chime*				
Test	Test Panel				
	Test Panel				

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RVON-2 for KP 12 CLD

General Description of the RVON-2 Voice Over Network Card

Installed directly into KP CLD family keypanels, the RVON-2 provides VoIP (Voice over Internet Protocol) communications for the RTS ADAM Intercom family. In general, VoIP means sending voice information in digital form using discrete packets rather than the traditional hard-wire analog audio over copper connection. The RVON-2 delivers an integrated solution for connecting CLD keypanels to the Intercom matrix over IP networks.

The RVON-2 is compatible with any RTS Matrix Intercom System equipped with a suitable RVON interface. In conjunction with the KP 12 CLD keypanel, the RVON-2 brings a new level of enterprise-wide and remote access functionality to your RTS Matrix Intercom.

The RVON-2 card is configurable through the keypanel service menu and Bosch's AZedit configuration software. It is fully compatible with internationally recognized standards and supports the following protocols: G.711, G.729A, and G.723 2-bit rates.

The RVON-2 reaffirms RTS' history of providing support for the latest technology in a fully supported backward compatible manner to all its RTS products.

Features

Installation	The RVON-2 provides a single RJ-45 Ethernet connection for use with a 10 BASE-T or 100 BASE-TX network.
2 Channels of Audio IN and OUT	The RVON-2 card supports two (2) channels in and out and has configurable network and bandwidth parameters that can be tailored to individual network functions.
Ethernet Compatible	The RVON-2 card uses standard Ethernet protocols and is compatible with 10 BASE-T and 100 BASE-TX Ethernet compliant devices and networks.
AZedit Configurations	The RVON-2 provides the user the ability to adjust the audio parameters of the RVON-2 channel to optimize the available bandwidth.
Swappable Between Ethernet and AIO Connection	When connected to an Ethernet LAN, if selected, audio comes from the VoIP RVON-2 card; when an Ethernet link is not present, the audio comes from the AIO connection. Note, the user does not need to remove the RVON-2 card to switch to AIO mode. VoIP and AIO audio is selected via the keypanel menu (<i>RVON Offers</i>).

Specifications

DIGITAL

TABLE 10. Compression Specifications

Compression	Audio Bit Rate	Coding Delay	Playout Delay	IP Bandwidth
G.711	64k	125μs	20–60ms	160–224kbps
G.729A	8k	10ms	20–120ms	32–112kbps
G.723	5.3k/6.3k	30ms	60–120ms	29–45kbps

Data depends on codec selection.

NOTE: The Playout Delay and Bandwidth depend on the configured amount of audio per packet.

CONNECTIONS

- RJ-45 Ethernet via backcard
- 20-pin KP Compatible Expansion Connector

PHYSICAL

• 2.5"W x 5.75"L (63.5mmW X 146.05mmL)

Default IP Addresses and Subnet Masks for the RVON Product Line

TABLE 11. Default IP Addresses and Subnet Masks for the RVON Product Line

Product	Default IP Address	Default Subnet Mask
RVON-I/O	192.168.0.1	255.255.0.0
RVON-8	192.168.0.2.	255.255.0.0
RVON-1/2	192.168.0.3	255.255.0.0
RVON-C	192.168.0.4	255.255.0.0
RVON-16	192.168.0.5	255.255.0.0
GPIO-16	192.168.0.6	255.255.0.0
MCII-e	192.169.0.7	255.255.0.0
Cronus	192.169.0.8	255.255.0.0
Zeus III	192.169.0.9	255.255.0.0

Dip Switches

Switch 1 Reserved

Switch 2 Disable Telnet Shell

Default off (Telnet Enabled)

Setting:

Description: The Telnet shell allows you to access configuration options through the use of Telnet. When

DIP switch 2 is off, you can use Telnet to access configuration options on the RVON-2

card. Turn DIP switch 2 on to disable the Telnet shell.

Switch 3 Enable Boot Downloader

Default off (Boot Downloader Disabled)

Setting:

Description The purpose of the boot downloader is to allow you to recover from having your main

application image corrupted (either by bad flash programming or by downloading an

invalid image). Turn **DIP switch 3 on** to enable the boot downloader.

Switch 4 Debug Only!

Default off

Setting:

Description DIP switch 4 should always be left in the off position. It is reserved for debugging and

switching it on can have unintended consequences.

Firmware Compatibility Requirements for the RVON-2 Card

TABLE 12. Compatibility Requirements for the RVON-2 card.

Description	Version
Master Controller	9.19.0 or later
Peripheral Controller	10.10.0 or later
DBX	1.10.1 or later
AZedit	2.06.06 or later
RVON-8	2.1.5 or later
KP 12 CLD	1.0.0 or later

Installation of the RVON-2 Card

KP 12 CLD Expansion Unit

The RVON-2 option card allows you to install VoIP technology right into the keypanel.

IMPORTANT: Be sure to remove the knockout piece on the rear panel of the GPIO Expansion unit.

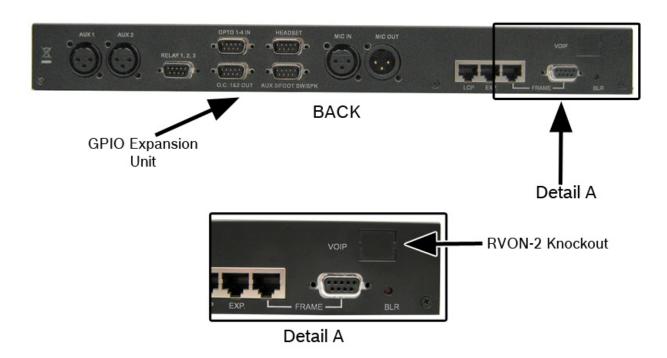


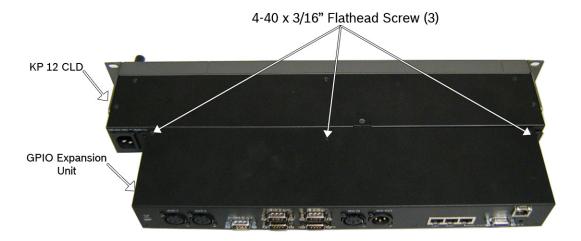
FIGURE 39. GPIO Expansion Unit — RVON-2 Knockout

NOTE: You must have the KP 12 CLD expansion panel installed to use an RVON-2 card. However, coupling a KP 12 CLD and an RVON-I/O gives you RVON capabilities as well.

To install the RVON-2 Option card in the KP 12 CLD expansion unit, do the following:

NOTE: You do not need to uninstall the KP 12 CLD expansion unit from the KP 12 CLD when you install the RVON-2 Option Card.

1. Using a screwdriver, remove the **three (3) screws** on the top of the expansion unit.



2. Remove the three (3) screws from the back panel of the KP 12 CLD expansion panel.



3. Remove the XLR connector screws (8).



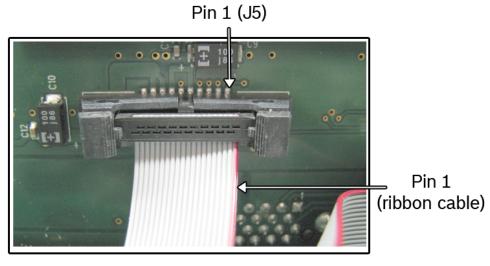
4. Using a 1/4" nut driver, remove the **DB-9 connector hex screws** (12).



Back

- **5.** Carefully slide the top/back chassis to remove the **back panel** and set it aside.
- **6.** Attach the **provided ribbon cable to J10** on the RVON-2 card.

NOTE: Be sure to align the red wire in the ribbon cable with pin 1 on the RVON-2 card.

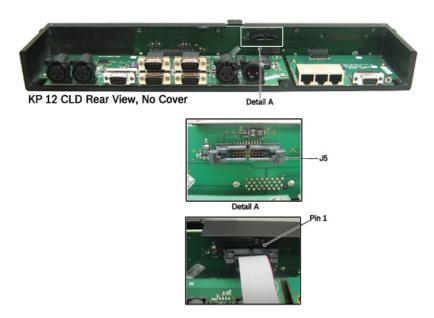


J5 Connector

7. Securely connect the **RVON-2 Option Card ribbon cable** to the J5 connector of the GPIO expansion panel interface board.

IMPORTANT:

Do not connect the ribbon cable backwards, unintended results can occur.



8. Place the **RVON-2 card** in the expansion unit, aligning the screw holes in the board with the metal standoffs in the expansion unit.



4-40 1/4" Pan Head Screw (3) 4-40, 3/16x5/8 Threaded Hex Standoff (3)

A

B

- Detail H
- 9. Using a screwdriver, connect the **three (3) screws** that hold the RVON-2 option card in place in the expansion panel.
- 10. Using the appropriate screws, attach the **cover** to the expansion unit.
- 11. Power On the KP 12 CLD unit.

Configure the RVON-2 from the KP 12CLD

The KP 12 CLD firmware must be at version 1.0.1 or higher, allowing the RVON-2 is to be used with the KP 12 CLD.

Set the IP Address from the Service Level Menu

The RVON-2 card, when shipped has a default IP Address already configured, see "Default IP Addresses and Subnet Masks for the RVON Product Line" on page 188. This must be changed in order for the RVON-2 card to function properly because the pre-configured IP Address may not work with your network.

To **set the IP Address**, do the following:

1. On the KP 12 CLD, press **Menu**. *The top level menu appears*.

- 2. Using the up or down key, select **Service**.
- 3. Press **SEL**.

The Service submenu appears.

- 4. Using the up or down key, select **RVON Setup**.
- Press SEL.

The RVON-2 and RVON-IO appear in the display.

- **6.** Using the up or down key, select **RVON-2**.
- 7. Press **SEL**.

IP Address, Gateway, and Netmask appear in the display.

- 8. Using the up or down key, select **IP Address**.
- 9. Press SEL.

The current IP Address appears.

10. Using the number pad, enter the **first octet** in the IP Address.

This activates the first octet of the IP Address and clears the rest of the IP Address.

11. Press SEL.

This confirms the first octet in the IP Address and moves you to the second octet.

NOTE: Press **SEL** to skip over any octet that does not need modification.

- **12.** Repeat **steps 10 and 11** until the entire IP Address is entered.
- 13. Press SEL.

IP Address, Gateway, and Netmask appear in the display.

NOTE: Once you have entered the IP Address, enter the Gateway Address, if required. A Gateway is a node (for example, a computer) on a network that serves as an entrance to another network.

- **14.** Using the up or down key, select **Netmask**.
- 15. Press SEL.

The current Netmask appears.

16. Using the number pad, enter the **first octet** in the Netmask.

This activates the first octet of the Netmask and clears the rest of the Netmask.

17. Press SEL.

This confirms the first octet in the Netmask and moves you to the second octet.

NOTE: Press **SEL** to skip over any octet that does not need modification.

- **18.** Repeat **steps 16** and **17** until the entire Netmask is entered.
- 19. Press SEL.

IP Address, Gateway, and Netmask appear in the display.

NOTE: Once you have entered the Gateway, enter the Netmask, if required. The Netmask is a string of numbers similar to an IP Address, except that it masks or screens out the network part of an IP Address so that only the host computer part of the address remains (for example, 255.255.255.0).

20. Press SEL.

The current Netmask appears.

21. Using the number pad, enter the **first octet** in the Netmask Address.

This activates the first octet of the Netmask Address and clears the rest of the address.

22. Press SEL.

This confirms the first octet in the Netmask Address and moves you to the second octet.

NOTE: Press **SEL** to skip over any octet that does not need modification.

- 23. Repeat steps 21 and 22 until the entire Netmask is entered.
- 24. Press SEL.

IP Address, Gateway, and Netmask appear in the display.

25. Press CLR to exit the menu.

The modifications are now made.

NOTE: You can still set the IP Address without being connected to an Ethernet LAN. Once you have entered the IP information you are prompted to perform a Save Cfg. The address is saved in the keypanel until the RVON-2 is connected to an Ethernet LAN.

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Menu System, RVON Offers (Only available with the RVON-2 option card installed)

The **RVON Offers** menu item is used to configure the matrix connection when the RVON-2 option card is installed. It is also used to configure which RVON channels can be used for Aux Input.

NOTE: Use the left and right arrows in the keypanel display to navigate to the different menu items.



FIGURE 40. RVON Offers Top Level Menu Option

RVON-2 Option Card Matrix Connection

NOTE: You can only have one (1) frame connection at a time.

There are three (3) ways to connect to the matrix:

- AIO AIO-8, AIO-16, Cronus. When the AIO connection is used, both RVON Ch1 and Ch2 are available as Aux Input Channels. Use the Frame connection on the back panel of the keypanel.
- RVON-2 RVON-16, RVON-8, RVON-C, RVON-I/O (in remote mode) You can only use RVON channel 1 when connecting to the matrix using the RVON-2. Use the VoIP connection on the RVON-2 option card.
- RVON-I/O RVON-16, RVON-8, RVON-C, and RVON-I/O (in local mode). Use the Frame connection on the back panel of the keypanel.

REFERENCE: For more information about RVON-I/O configuration, see the RVON-I/O user manual which can be found at www.rtsintercoms.com.

RVON-2 Option Card Matrix Port Configuration

With the RVON-2 option card installed in one (1) of the CLD family of keypanels, you can have up to two (2) additional full-duplex audio channels that can be mixed with audio in the CLD keypanel.

NOTE: RVON channel 1 can be used for either the matrix connection or as an Aux Input/Output. However, it cannot be used as both at the same time.

To configure the Matrix connection port, do the following:

- 1. On the KP 12 CLD keypad, press **MENU**. *The Top Level menu appears*.
- 2. Using the arrow keys, select **RVON Offers**.

3. Press SEL.

Keypanel and Aux Input appear in the display.



4. Using the arrow keys, select **Keypanel**. RVON-2 and AIO^1 appear in the display.



- **5.** Select the **Matrix connection type** you want to use. *A list of available ports appears*.
- **6.** Using the arrow keys, select the **port** you want to use. *An arrow appears next to the port.*
- **7.** Press **CLR** to exit menu mode.

NOTE: You can manually select between keypanel frame connections. But, when the connection is switched, it automatically disables and resets the unused connection to the *None* option. This means when you reconnect, you must reassign the matrix port.

RVON-2 Option Card Aux Port Configuration

To configure the RVON channels as Aux Inputs, do the following:

- **1.** On the KP 12 CLD keypad, press **MENU**. *The Top Level menu appears*.
- 2. Using the arrow keys, select **RVON Offers**.
- 3. Press the SEL button. *Keypanel and Aux Input appear in the display.*
- 4. Using the arrow keys, select **Aux Input**.



5. Press **SEL**. *RVON Ch1 and RVON Ch2 appears in the display.*



1. If an RVON-I/O is connected to the keypanel, RVON-I/O replaces the AIO menu option.

- **6.** Using the up or down key, select **RVON Ch1** or **RVON Ch2**.
- 7. Press SEL.
 - A list of available RVON ports appears in the display.
- 8. Using the up or down key, select the **RVON port** you want to configure as an Aux Input.
- 9. Press SEL.

The RVON Aux Input is configured.

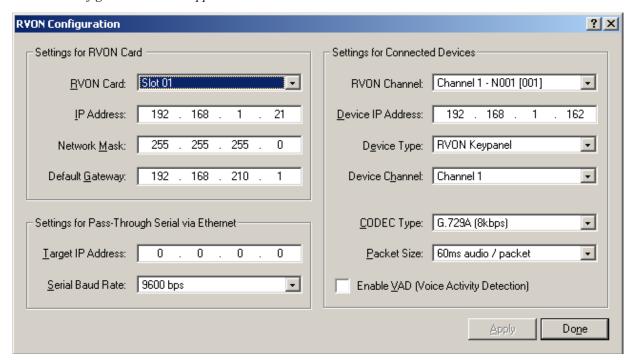
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Configure a RVON card in the Frame using AZedit to contact the RVON-2

To configure the RVON-2 card, do the following in AZedit:

- 1. From the Status menu in AZedit, select I/O Cards.

 The I/O Card Status window appears showing the types of installed cards.
- 2. Right click an **RVON card** and select **RVON Configuration**. *The RVON Configuration window appears*.



NOTE:

- The RVON card you use should be already configured. If it is not configured, refer to the specific RVON User Manual which can be found at www.rtsintercoms.com.
- Remember, the RVON-2 has only one channel that can be configured as the matrix port. The second channel is always an AUX port.
- **3.** From the RVON Channel drop down list, select the **channel** to be used to communicate to the RVON-2 card across the network.
- **4.** In the Device IP field, enter the **IP Address** for the RVON-2 card.
- **5.** From the Device Type drop down list, select **RVON Keypanel**.
- 6. From the Device Channel drop down list, select **Channel 1** or **Channel 2**.

 There may be two (2) channels listed, but a matrix port connection can only be made through channel 1. Channel 2 can be used as an Aux Input.
- **7.** From the CODEC Type drop down list, select the **codec type**.
- 8. From the Packet Size drop down list, select the **size** of each audio packet.

NOTE: A codec is an algorithm used to compress audio. Codecs dictate the quality of audio you hear and the network bandwidth used. The packet size determines how much audio data is carried across the network in each transmitted packet. The codec type and packet size chosen require different amounts of bandwidth from the network. As with the codec type, the packet size you choose for the audio transfer affects the audio you hear and the bandwidth you use over the network. The larger the audio packet you choose to use, the lower the bandwidth used. However, the larger packet size can result in a higher delay and longer gaps if the packet is lost. On the other hand, smaller packet sizes result in larger bandwidth use, but lower delays and smaller gaps if the packet is lost. The Intercom System Engineer and the Network Designer may want to work together in choosing the codec type and packet size suitable for the size of the network, so degradation of network resources does not occur.

9. Select the **Enable VAD** check box, if you want to conserve bandwidth when the audio level is below a given threshold.

NOTE: VAD (Voice Activation Detection) saves network bandwidth by stopping the flow of audio packets when silence is detected. VAD is similar to VOX.

10. Once you are finished, click Apply.

Download RVON-2 Firmware Through AZedit

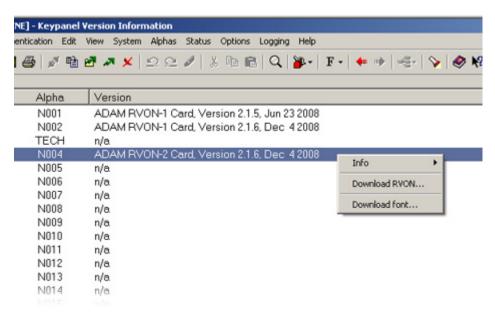
NOTE: AZedit sends firmware directly to the RVON-2 card over Ethernet. This is different from other I/O cards (except the RVON-8) that receive the firmware from the Master Controller. For this reason, verify the PC running AZedit is able to contact the RVON-2 card via the network, or is configured with a Gateway IP Address that can contact the RVON card. If it is not, AZedit is not able to find the RVON-2 card.

To **test the connection**, do the following:

> Ping the **RVON card** from a command line.

To download the RVON-2 firmware, do the following:

- 1. Open AZedit.
- **2.** From the Status menu, select **Software Versions** and then **Keypanels**. *The Keypanel Version window appears*.



3. At the bottom of the Keypanel Version Information window, select the **Show RVON/OMNEO Versions** check box.

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- **4.** Select and right click the **keypanel** which has the RVON-2 installed, and then select **Download RVON....** *The Download Device Firmware window appears.*
- **5.** Using the Browse feature, browse to the **file to be downloaded**.

6. Click Open.

The Download Device Firmware window appears.



7. Click Begin Download.

The download begins.



8. Click OK.

The RVON-2 firmware download is complete. This takes a minute or two (2) to occur.

IMPORTANT:

Do not power down the keypanel until you have verified the new version information from AZedit. If the card loses power while reprogramming the onboard flash memory, the card may become unbootable and may need to have its flash chips reprogrammed at the factory.

9. Verify the **correct version** is shown on the Keypanel Version Information window.

NOTE: You can also download the RVON-2 firmware through *Status|Ports*. You cannot check the version once the download is completed from the Port Status window.

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RVON Serial and Telnet Commands

RVON-2 card programming can be done via telnet connection.

There is only one (1) physical connection to an RVON board:

• Backcard RJ-45 J1 (Telnet Only)

Setup

Telnet

IP Address, port 23

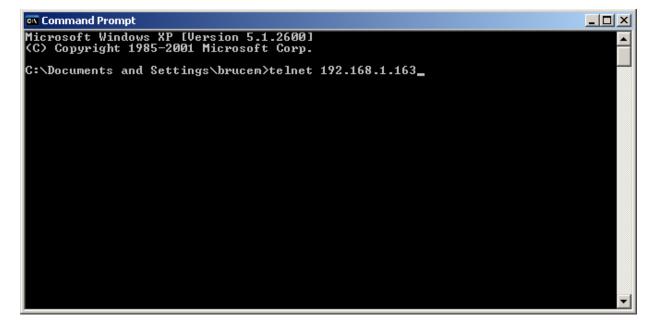
How to Configure the RVON-2 using Telnet

If you cannot access the physical KP 12 CLD with RVON-2 installed on it, you can still configure the card through the use of Telnet. The following instructions show you how to access the Telnet screen and show you some of the information you can see and edit.

NOTE: These instructions are to help you get to the Telnet screens and give you an overview of what can be done. This is not an all-inclusive document. Not every action that can be performed is contained within the document.

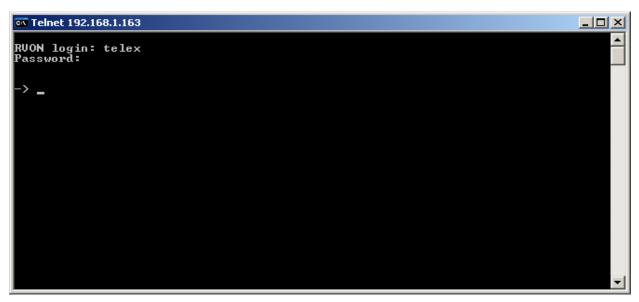
To display the settings for the RVON-2 Card, do the following:

- 1. Open a command prompt.
- 2. At the prompt, type telnet [IP ADDRESS] (The [IP Address] is the IP Address assigned to the RVON-2 card).

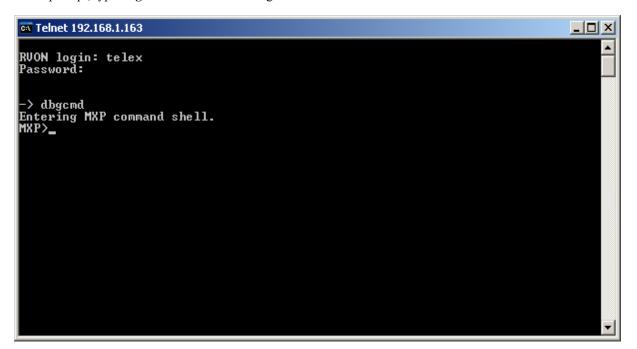


3. Press Enter.

The RVON logon screen appears.



- **4.** In the logon field, type the **RVON logon** (default = telex).
- 5. Press Enter.
- **6.** In the password field, type the **RVON password** (default = password).
- 7. Press Enter.
 A prompt appears.
- **8.** At the prompt, type **dbgcmd** to access the debug command screens.



- **9.** Press **Enter**. *An MXP prompt appears*.
- 10. At the prompt, type Show.

11. Press Enter.

The show commands screen and MXP prompt appears.

```
Telnet 192.168.1.163
                                                                                                                                   RVON login: telex
Password:
-> dbgcmd
Entering MXP command shell.
MXP>show
Show Commands:
   show rvon
   show channel
   show emac
   show version
                                     [prof_id]
[tcid]
[tcid] [clear]
[tcid] [clear]
[tcid] [clear]
[tcid] [clear]
[tcid]
[tcid]
[tcid]
   show coding
show toid
   show tstat
   show vpstat
   show rxtxstat
   show errstat
show call_record
   show tlevels
   show gains
show dsp_version
                                      [tcid]
                                      [dsp]
```

- **12.** At the MXP prompt, type the **show** command you want to see (for example, "show rvon").
- 13. Press Enter.

The values for the RVON-2 card appear.

To edit the RVON-2 configuration, do the following:

- 1. Repeat steps 1 through 9 from above.
- 2. At the MXP prompt, type either set RVON or set EMAC (see screen descriptions below).
- 3. Press Enter.

Available parameters for this field are:

set rvon desc Allows you to edit the RVON description up to 63 characters

set rvon ip_addrAllows you to edit the IP Addressset rvon netmaskAllows you to edit the netmaskset rvon gatewayAllows you to edit the gateway

```
MXP>set channel

RUON CHANNEL RELATED:

set channel [all:\(chan\)] desc \(description \left(0-63 \text{ characters}\right)\)

set channel [all:\(chan\)] dest_ip \(\frac{1}{1} \text{ paddress} \left(x.x.x.x.\)\)

set channel [all:\(chan\)] dest_type \(\frac{1}{2} \text{ pye} \left(0-4\), \(\text{ 0=RUON-8}, \text{ 1=RUON-10}\right)\)

, 3=RUON-C, 4=RUON-16

set channel [all:\(chan\)] dest_chan [same:\(chan \left(0-7)\)]

set channel [all:\(chan\)] chan_codec \(\frac{1}{2} \text{ prof_id} \left(0-27)\right)\)

set channel [all:\(chan\)] vad_threshold [adaptive:\(\frac{1}{2} \text{ to } \text{ +10 relative to } \text{ -40dBm}\))

set channel [all:\(chan\)] input_gain \(\frac{1}{2} \text{ to } \text{ +14 dB}\right)\)

set channel [all:\(chan\)] onhook

set channel [all:\(chan\)] offhook

MXP>
```

Available parameters for this field are:

set channel desc	Allows you to edit the channel description (up to 63 characters)		
set channel dest_ip	allows you to edit the destination IP Address the RVON-2 card communicates to		
set channel dest_type	Allows you to edit the destination type for the device the RVON-2 card talks to		
set channel dest_chan	Allows you to edit the destination channel of the device the RVON-2 talks to		
set channel chan_codec	Allows you to edit the codec to be used for transferring the data between the two (2) devices		
set channel vad_threshold	Allows you to edit the vad threshold for the channel. from -20 to +10dB		
set channel input_gain	Allows you to edit the input gain for the RVON-2 card		
set channel output_gain	Allows you to edit the output gain for the RVON-2 card		
set the channel onhook	onhook = hang up If the channel was already connected, going offhook has no effect (it is already offhook if connected). Going onhook hangs up the call, and it should then try to reconnect. If the channel was not already connected, going offhook causes it to try and establish a connection. Going onhook in this state has no effect, it is already onhook if idle		
set channel offhook	offhook = connected If the channel was already connected, going offhook has no effect (it is already offhook if connected). Going onhook hangs up the call, and it should then try to reconnect. If the channel was not already connected, going offhook causes it to try and establish a connection. Going onhook in this state has no effect (it is already onhook)		

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OKI KP 12 CLD Quick Start Guide

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You must have the following:

- Phillips Screwdriver
- Hex Nut Driver

Firmware Requirements

• KP 12 CLD version 1.3.0

IMPORTANT:

The keypanel firmware must be updated before you install the OKI module into the keypanel. For more information, see "Download Firmware to the Color Keypanel Family From AZedit" on page 59.

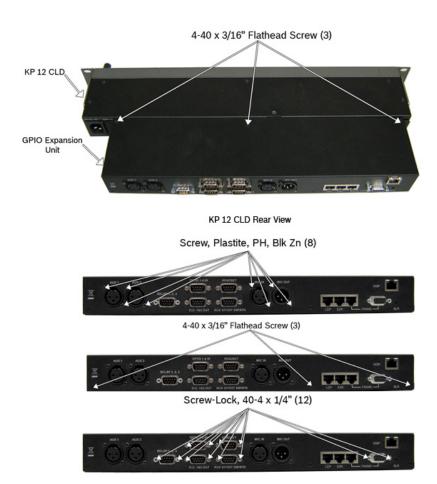
OKI Installation – KP 12 CLD

To install the OKI board set for the KP 12 CLD, do the following:

NOTE: Because all the changes are made to the expansion box, remove the expansion box from the KP 12 CLD unit.

1. Power off the **KP 12 CLD unit**.

2. Remove the expansion box from the KP 12 CLD unit.

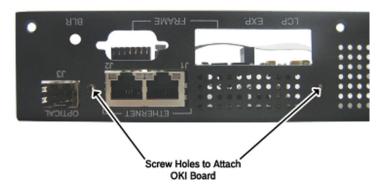


NOTE: Steps 3 and 4 are only necessary if an RC option is installed.

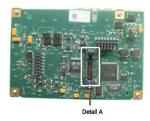
- 3. Using a hex nut driver, remove the 12 hex screws from the KP 12 CLD expansion box.
- 4. Using the same screwdriver, remove the eight (8) pan head screws from the KP 12 CLD expansion box.
- 5. Using a Phillips screwdriver, remove the six (6) flat head screws from KP 12 CLD expansion box.
- 6. Remove the KP 12 CLD expansion box cover.
- 7. If installed, remove the **RVON standoffs**.
- 8. Replace the standoffs with the provided pan head screws (3).

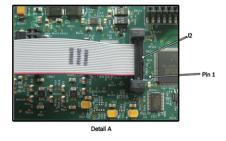
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IMPORTANT: Ensure that all RJ-45 connectors on the board are flush with the chassis openings.

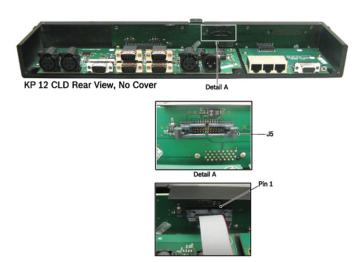


9. Using the provided pan head screws (2), secure the **OKI board set to the OKI KP 12 CLD expansion box replacement cover**.





NOTE: It is easier to install the OKI board set to the OKI KP 12 CLD expansion box back panel while the board set and the chassis are laying upside down, see picture below.



NOTE: Align the red stripe on the cable with Pin 1.

- 10. Attach one (1) end of the provided ribbon cable to J2 on the OKI board set.
- 11. Attach the other end of the ribbon cable to J5 on the KP 12 CLD expansion box main board.
- **12.** Replace the existing **cover** with the OKI KP 12 CLD expansion box cover.

IMPORTANT: Ensure that all RJ-45 connectors on the board are flush with the chassis openings.

- 13. Replace the eight (8) pan head screws.
- 14. Replace the six (6) flat head screws.
- 15. Replace the 12 hex screws.
- 16. Using the existing screws, secure the OKI KP 12 CLD expansion box cover to the chassis.



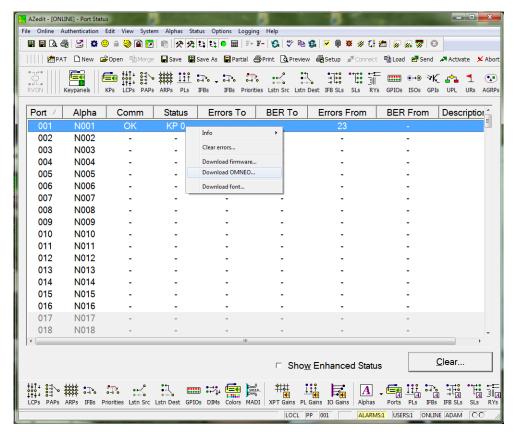
17. Remount the KP 12 CLD expansion box to the KP 12 CLD unit.

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Upgrade the OKI Board Firmware

To upgrade the OKI board firmware, do the following:

- **1.** From the Status menu, select **Port**. *The Port Status window appears*.
- **2.** Right-click the **port** where the OKI KP-12 Classic keypanel is assigned. *A popup menu appears*.



3. From the popup menu, select **Download OMNEO**. *A User Access Control warning appears*.

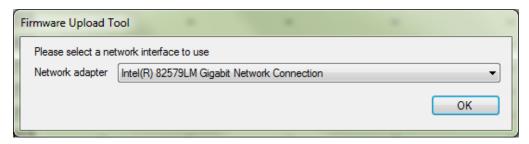
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NOTE: If this is the first time running the Firmware Upload Tool, do the following:

- a. In the Browse for Folder window, navigate and select the Firmware Upload Tool folder.
- b. Click OK.

A select network interface message appears.



c. From the Network adapter drop down menu, select the network interface you want to use.

4. Click OK.

The Firmware Upload Tool appears.



- 5. Select the **OKI Device** you want to upload the new firmware.
- 6. Click Upload.

The Select firmware for upload window appears.

- 7. Select the **firmware version** you want.
- 8. Select Start.

You can watch the progress of the upload in the Progress column.

Cyrillic Support

AZedit and Cyrillic Support

Minimum firmware revision requirements for Cyrillic support are:

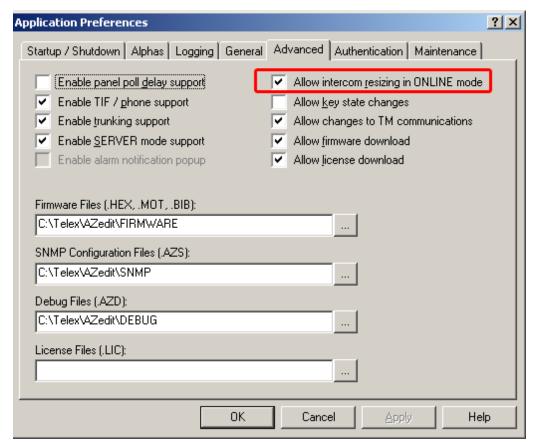
- MCII-e v2.4.0 or later
- AIO-8 v10.5.0 or later
- AIO-16 v1.3.0 or later
- Cronus v1.8.0 or later
- Zeus III v1.3.0

- KP 32 CLD v1.3.0 or later
- KP 12 CLD v1.1.0
- KP12/4U v1A.0.26C (Cyrillic character set only)
- Font file KP32-CLD-UNICODE.KPF v0.05

To configure AZedit for Cyrillic operation, do the following:

- 1. On the KP CLD keypanel, select Service|Alphas|8 Chars (Unicode)|Standard|Save and Restart.
- **2.** From the Options menu in AZedit, select **Preferences**. *The Application Preferences window appears*.
- **3.** Select the **Advanced** tab. *The Advanced page appears.*

4. Select the Allow intercom resizing in ONLINE mode check box.

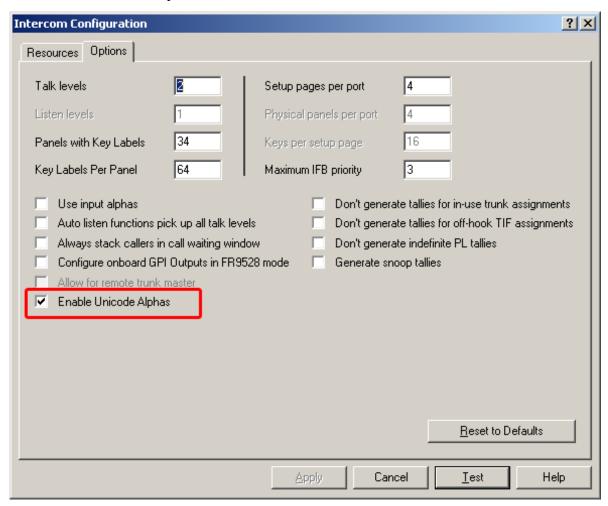


- 5. Click Apply.
- 6. Click OK.

The Application Preferences window closes.

- **7.** From the Options menu, select **Intercom Configuration**. *The Intercom Configuration window appears*.
- **8.** Click the **Options** tab. *The Options page appears.*

9. Select the Enable Unicode Alphas check box.

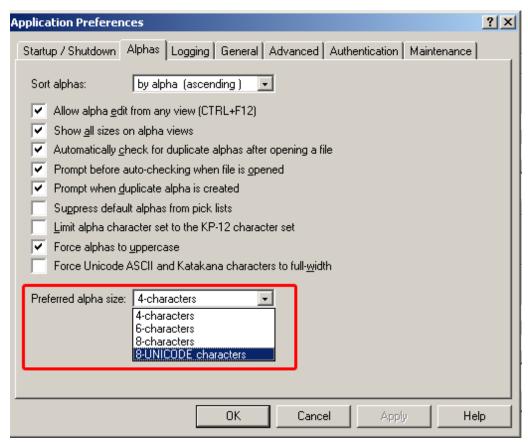


10. Click Apply.

The Intercom Configuration window closes.

- **11.** From the Options menu, select **Preferences**. *The Application Preferences window appears*.
- **12.** Click the **Alphas** tab. *The Alphas page appears.*

13. From the Preferred alpha size drop down menu, select **8-UNICODE** characters.



- 14. Click Apply.
- 15. Click OK.

The Application Preference window closes.

16. From the Online menu, select **Send Changes.** *The changes are sent to the intercom.*

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