

Zeus III

Digital Intercom Matrix

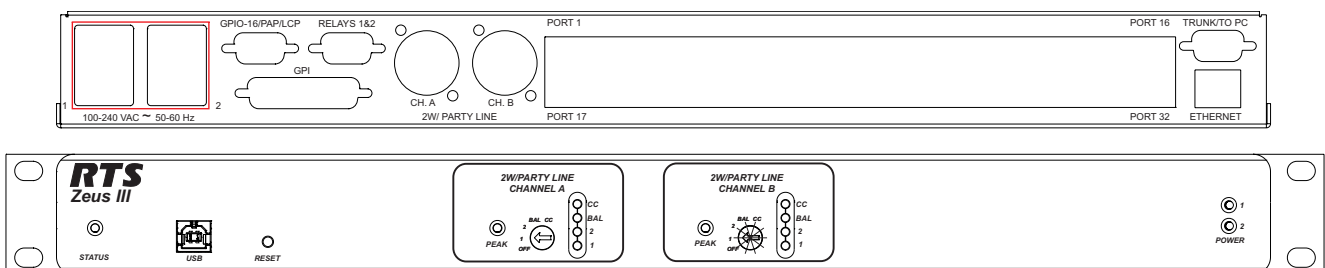


Zeus III is the next generation of condensed intercom system units, giving compact systems more options for their intercom configurations. We now have 32 channels IN/OUT and two (2) configurable party line interface channels. It's one (1) **RU** (Rack Unit) compact size is perfect for environments with limited space. The Zeus III can be configured from virtually anywhere on the network using AZedit intercom software. Alternatively, the Zeus III can be directly connected to AZedit through the use of the USB connector on the front panel. The system has 32 standard RJ-45 connectors making it easier to connect your intercom system with audio lines and keypanels by keeping the RTS wiring scheme.

Features

- Zeus III comes with two (2) completely independent power supplies powered from separate AC feeds.
- The USB port is used for system configuration using AZedit intercom software.
- Using the dedicated DB-9 trunk connector with standard RS485 protocol, the Zeus III is able to communicate with a RTS trunked system.
- Zeus III is a 32-channel intercom matrix. Each channel can be used to connect to a keypanel or 4W Audio (audio in & out).
- Remote configuration with the addition of Ethernet to the unit, you can remotely configure your Zeus III intercom system.
- Zeus III now automatically addresses keypanels when they are connected to the frame. This eliminates the need for setting keypanel addresses.
- Zeus III includes a dual-channel party line interface. From the front panel it can be configured for use with RTS TW, Audiocom, or Clear-Com party line systems.
- Two (2) relay connections are included, which are available on the back panel of the unit.

Line Drawing



Specifications

MATRIX

Description: 32 keypanel ports,
2-party line ports with call signaling
Conversion: 44.1kHz, 24-Bits
Programming: AZedit via Windows
Memory: Non-volatile Flash
Communication: USB, Ethernet and RS232 serial interface

AUDIO PERFORMANCE

Keypanel Ports

Signal Type: Balanced
Nominal Level: 8dBu
Maximum Level: 20dBu
Input Impedance: 22k Ω
Output Impedance: 600 Ω
SNR at 20dBu (A-weighted): >85dB
THD+N at 20dBu, 1kHz (unweighted): 0.007%
Frequency Response at 20dBu: within ± 1 dB from 50Hz–20kHz
Crosstalk at 20dBu: <-80dBu

NOTE: All measurements performed using an audio precision system one (1) dual domain system. At f=1kHz and Level=20dBu.
Measurement bandwidth=20Hz to 20kHz.

Party Line Ports

Nominal Operating Levels: Audiocom: 1VRMS
RTS TW / Audiocom / Clear-Com: 775mVRMS
Nominal Input/Output: 5k Ω
Frequency Response:
200Hz to 3.5kHz, ± 4 dB
THD: <1% at channel output with nominal input

DATA PORTS

Keypanel Data Ports: RS485 with dedicated transceivers for every port.
Peripheral Data Port: RS485 for UIO256/LCP-102
Trunk Port: RS485 for Trunking
PC Port: RS232 for AZedit (supports CPL)
USB Port: USB for AZedit
Ethernet Port: 10/100Mbps for remote AZedit

CALL SIGNALS

Balanced
Receive: 20kHz ± 100 Hz, 100mVrms
Send: 20kHz ± 100 Hz, 500mVrms

RTS Channel 1 and Channel 2

Receive: 20kHz ± 100 Hz, 100mVrms
Send: 20kHz ± 200 Hz, 350mVrms

Unbalanced (DC-call)

Receive: 4VDC
Send: 12VDC

LED Indicators

Status LED

Normal Operation: Green
Power LED (one for each power supply)

Party Line LEDs

Balanced Select LED: Mode Selected: Green Mode OFF: no light
RTS CH-1 Selects LED: Mode Selected: Green Mode OFF: no light
RTS CH-2 Selects LED: Mode Selected: Green Mode OFF: no light
Unbalanced select LED: Mode Selected: Green

Party Line Peak Level LED

Normal Range: Green
Ethernet LED: Activity, Link

Controls

Reset Switch: Accessible from the front panel.
Rotary Switch for 2-wire Mode

Selection:

OFF: None of the modes are active
1: RTS Channel 1 mode
2: RTS Channel 2 mode
Balanced: AudioCom mode
Unbalanced with DC Call:
Unbalanced with DC Call mode

Power Requirements

AC Input: 90–264VAC 50/60Hz
Power Consumption: 70W

Physical

Dimensions: 1.72" H x 19" W x 15" D
(44mm H x 415.8mm W x 381mm D)
Weight: 7.0lbs (3.18kg)

Order Information

90007843300 • Zeus III • Digital intercom Matrix without power cord
90007843200 • Zeus III UK • Digital intercom Matrix with UK power cord
90007843100 • Zeus III EURO • Digital intercom Matrix with Euro power cord
ZEUSIII-USA • Zeus III US • Digital intercom Matrix with US power cord

The specification information is preliminary and is subject to change without notification.
Brand names mentioned are the property of their respective companies.