

Zeus III LE/LE+

Digital Intercom Matrix

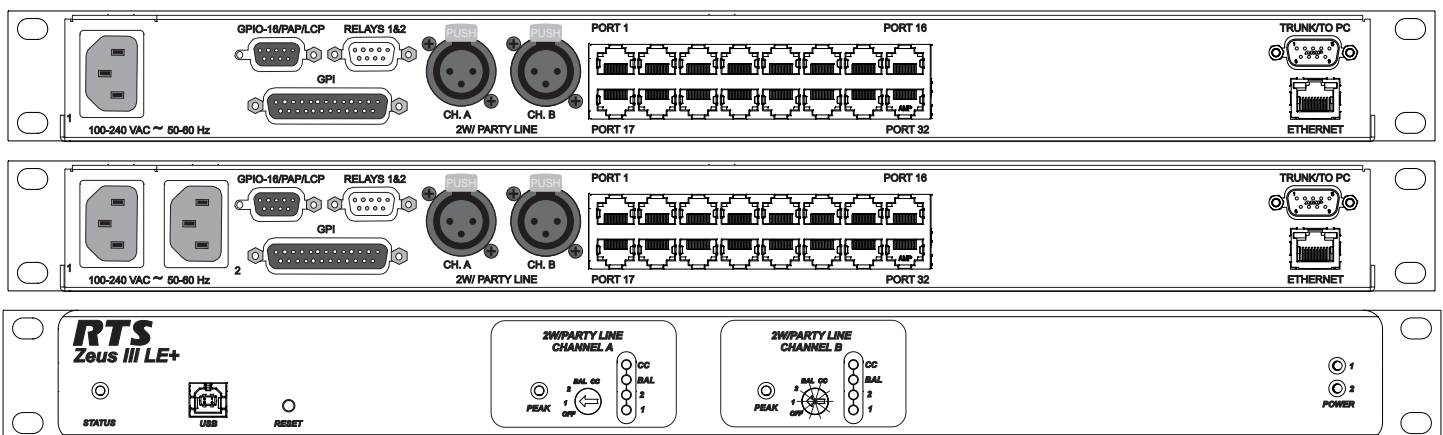
Zeus III LE and LE+, the lighter versions of the Zeus III Digital Intercom Matrix, sporting 16 channels of audio IN/OUT. The Zeus III LE is a single power supply unit, while the Zeus III LE+ contains two (2) power supplies to give the added protection of power supply failover. The Zeus III LE/LE+ still has two (2) configurable party line interface channels. Its physical size is perfect for those environments where space is a concern. The Zeus III LE/LE+ can be configured from virtually anywhere in the network using Ethernet and the AZedit intercom software. Alternatively, the Zeus III LE/LE+ can be directly connected to AZedit through the use of the USB connector on the front panel. The system has 16 standard RJ45 connectors, making it easier to connect your intercom system with audio lines and keypanels by keeping the RTS wiring scheme.



Features

- Zeus III LE is a single power supply unit, while the Zeus III LE+ is a dual, failover power supply.
- The USB port is used for system configuration using AZedit intercom software.
- Trunk capable using the Ethernet connection or dedicated DB-9 trunk connector with standard RS485 protocol, the Zeus III LE/LE+ is able to communicate with a RTS trunked system.
- The Zeus III LE/LE+ is a 16-channel intercom matrix. Each channel can be used to connect to a keypanel or 4-wire audio (audio IN/OUT).
- Remote configuration with the addition of Ethernet to the unit, you can remotely configure your Zeus III LE/LE+ intercom systems.
- Zeus III LE/LE+ includes an interface for additional two (2) channels of party line. From the front panel, configurations can be made for use with RTS TW, Audiocom, or Clear-Com party line systems. No additional interfaces are necessary.
- Zeus III LE/LE+ automatically addresses keypanels when they are connected to the frame. This eliminates the need for setting keypanel addresses and maintaining port allocations.
- Two (2) relay connections are included, which are located on the back of the unit.

Line Drawings



Specifications

Matrix

Description: 16 keypanel ports, two (2) party line ports with call signaling

Conversion: 44.1kHz, 24-bits

Programming: AZedit via Windows

Memory: Non-volatile Flash

Communication: USB and Ethernet interface

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 1 Dual Domain System. At f=1kHz and Level=20dBu. Measurement bandwidth=20Hz to 20kHz.

Party Line Ports

Nominal Operating Levels: Audiocom: 1 VRMS

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 GPIO-16/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, GPIO-16 or trunking data

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, System Malfunction: Red

Power LED (one (1) for each power supply)

Normal: Green, Bad Power Supply: OFF (no light)

Party Line LEDs

Balanced Select LED: Mode Selected: Green

RTS CH-1 Selects LED: Mode Selected: Green

RTS CH-2 Selects LED: Mode Selected: Green

Unbalanced select LED: Mode Selected: Green

Mode OFF: no light

Party Line Peak Level LED

Normal Range: Green, Above Normal Range: Red

Ethernet LED: Activity, Link

Controls

Reset Switch: Accessible from the front panel: recessed.

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: @ 120V/42VA–@ 220V/51VA

Physical

Dimensions: 1.72" H x 19" W x 15" D

(44mm H x 415.8mm W x 381mm D)

Weight: 7.0lb (3.18kg)

Order Information

ZEUS3L_NO_CORD • Zeus III LE (no power cord)

ZEUS3L_US • Zeus III LE (US)

ZEUS3L_UK • Zeus III LE (UK)

ZEUS3L_EURO • Zeus III LE (EURO)

ZEUS3L_R_NOCORD • Zeus III LE+ (no power cord)

ZEUS3L_R_US • Zeus III LE+ (US)

ZEUS3L_R_UK • Zeus III LE+ (UK)

ZEUS3L_R_EURO • Zeus III LE+ (EURO)

The specification information is preliminary and is subject to change without notification.
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