

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. Its compact size is perfect for environments with limited space. With the addition of Ethernet, 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 RJ45 connectors making it easier to connect your intercom system with audio lines and keypanels by keeping the RTS wiring scheme.



Features

Redundant Power Supplies

The unit comes with two (2) completely independent power supplies powered from separate AC feeds.

USB Port

The USB port is used for system configuration using AZedit Intercom software.

Trunk Capable

Using the dedicated DB-9 trunk connector with standard RS485 protocol, the Zeus III is able to communicate with a RTS trunked system.

Additional Channels/Ports

The Zeus III is a 32-channel intercom matrix. Each channel can be used to connect to a keypanel or 4W audio (audio IN/OUT).

Dual-Channel Party Line Interface

Zeus III includes an interface for additional two (2) channels of party line. From the front panel it can be configured for use with RTS TW, Telex Audiocom, or Clear-Com party line systems. No additional interfaces are necessary.

Remote Configuration

With the addition of Ethernet to the unit, you can now remotely configure your Zeus III.

Dynamic Keypanel Addressing

Zeus III now automatically addresses keypanels when they are connected to the frame. This eliminates the need for setting keypanel addresses and maintaining port allocations.

Relays

Two relay connections are included, which are available on the back panel of the unit.

Zeus III Specifications

Matrix

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

Audio Performance

- **KeyPanel Ports**
- **Signal Type:** Balanced
- **Nominal Level:** 8 dBu
- **Maximum Level:** 20 dBu
- **Input Impedance:** 22 k Ω
- **Output Impedance:** 600 Ω
- **SNR at 20 dBu (A-weighted):** >85dB
- **THD+N at 20 dBu, 1 kHz (unweighted):** 0.007%
- **Frequency Response at 20 dBu:** within ± 1 dB from 50 Hz - 20 kHz
- **Crosstalk at 20 dBu:** < -80 dBu
- **Note:** All measurements performed using an Audio Precision System 1 Dual Domain System. At f=1 kHz and Level=20 dBu. Measurement bandwidth= 20 Hz to 20 kHz.

Party Line Ports

- **Nominal Operating Levels:** Audiocom: 1 VRMS
- **RTS TW / Telex Audiocom / Clear-Com:** 775mVRMS
- **Nominal Input/Output:** 5 k Ω
- **Frequency Response:** 200 Hz to 3.5 kHz, ± 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:** 20 kHz ± 100 Hz, 100mVrms
- **Send:** 20 kHz ± 100 Hz, 500mVrms

RTS Channel 1 and Channel 2

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

Unbalanced (DC-call)

- **Receive:** 4VDC
- **Send:** 12VDC

LED Indicators

- **Status LED**
Normal Operation: Green, System Malfunction: Red
- **Power LED (one 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 / 56VA – @ 220V / 72VA

Physical

- **1.72" H x 19" W x 15" D**
(44mm H x 415.8mm W x 381mm D)
- **7.0lbs (3.18kg)**

Ordering Information

Zeus III (without power cord)
Catalog Number: 90007843-300

Zeus III UK (with UK power cord)
Catalog Number: 90007843-200

Zeus III EURO (with Euro power cord)
Catalog Number: 90007843-100

Zeus III US (with US power cord)
Catalog Number: 90007843-000

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