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

Two Redundant Power Supplies
The unit comes with two 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 Partyline Interface
Zeus III includes an interface for additional two channels of partyline. From the front panel it can be configured for use with RTS TW, Telex Audiocom, or Clear-Com partyline systems. No additional interfaces are necessary.

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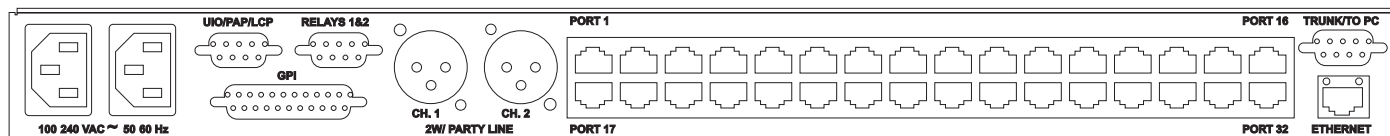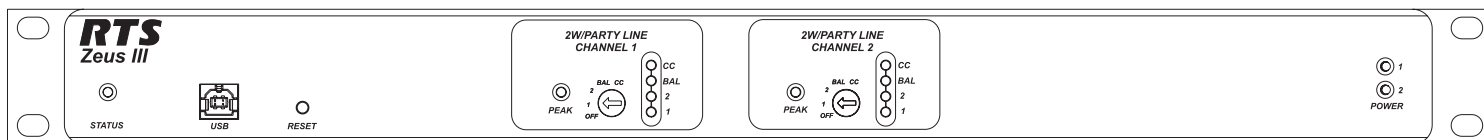With the addition of Ethernet to the unit, you can now remotely configure your Zeus III.

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, with are available on the back panel of the unit.

Line Drawing

Zeus III Specifications

MATRIX

Description: 32 keypanel 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 kΩ

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 ±1dB 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 kΩ

Frequency Response: 200 Hz to 3.5 kHz, ±4dB

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 Operation: Green

Bad Power Supply: OFF (no light)

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

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

70W

Physical

1.72" H x 19" W x 15" D

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

Weight

7.0lbs (3.18kg)

Ordering Information

Zeus III

Digital Intercom Matrix without power cord

Catalog Number: 90007843-300

Zeus III UK

Digital Intercom Matrix with UK Power Cord

Catalog Number: 90007843-200

Zeus III EURO

Digital Intercom Matrix with Euro Power Cord

Catalog Number: 90007843-100

Zeus III US

Digital Intercom Matrix with US Power Cord

Catalog Number: 90007843-000