Trunking Capable Digital Matrix Intercom System

Professional quality, fully programmable matrix intercom system at a VERY affordable price

You need the capabilities, redundancy and programmability of a full-featured, top of the line digital matrix intercom system, but have limited space in which to add the equipment. You are also concerned about being able to expand the intercom system as your communications needs grow.

The RTS™ Zeus II™ matrix intercom system provides 24 channels of high-quality audio in a compact 2 rack unit package with the added benefit of linking to other RTS matrix intercoms via intelligent trunking.

Each channel is capable of supporting any of the RTS line of matrix keypanels, or four-wire inputs and outputs for program, party line and IFB feeds.

The Zeus II comes complete with Zeus-Edit, Windows-based, full-featured configuration software, providing on-line and off-line programming capabilities.

Applications

- Auditoriums
- Stadiums
- Military
- Simulators
- Industrial
- Broadcast

Redundant power supplies standard

The unit comes complete with two completely independent power supplies that can be powered off of separate AC feeds. Because of the extremely low power consumption, the use of low cost UPS units for particularly critical installations is possible.

Meet any communications needs without rewiring, jumper changes, or the need to take the system "off-line"

Nearly all changes can be made by the users, using a keypanel. More involved changes can be made on-line or off-line using the Zeus-Edit programming software.

Better than CD quality audio

Zeus uses the Telex TDM ASIC to perform all audio switching and mixing in the digital real. Input and outputs are converted at 44.1 kHz, 20-bits for a full 20 kHz bandwidth. The TDM ASIC performs all DSP with 45-bits resolution, avoiding any degradation of communications, regardless of the number of users on a given path.
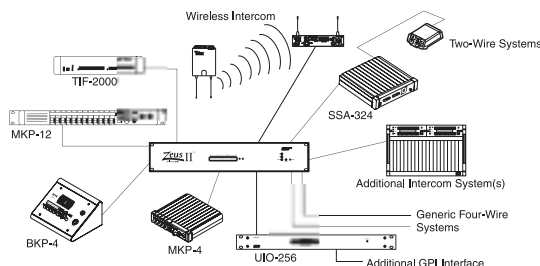
All communication modes are provided

Zeus comes standard with full support for point-to-point communications, party-line conferences, IFBs, Isolate, and special lists.
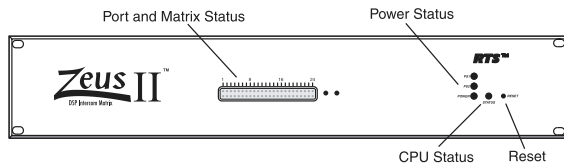
External interfaces standard

Eight general purpose inputs and outputs (GPIOs) are provided for control of external devices including two-way radios, VOXs, tally and alarm indicators. A serial port is also provided for connection of RTS™ accessories including additional GPIO, level control panels, conference assignment panels and program assignment panels.
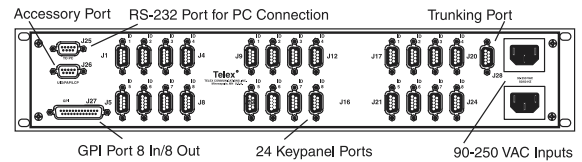
Example System

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RTS™

Front View

Port and Matrix Status

Power Status

CPU Status   *Reset*

Back View

Accessory Port   *RS-232 Port for PC Connection*   *Trunking Port*

GPI Port 8 In/8 Out   *24 Keypanel Ports*   *90-250 VAC Inputs*

Zeus II Specifications

Matrix

Size:	24 Ports
Processing:	Digital, 45 bits
Conversion:	44.1 kHz, 20 bits
Programming:	Zeus-Edit via Windows®
Memory:	Non-volatile Flash

Audio Performance

Input Type/Impedance:	Active Balanced, 22 k ohms
Output Type/Impedance:	Active Balanced, 600 ohms
Operating Level:	+8 dBu
Maximum Level:	+20 dBu
Frequency Response at + 20 dBu:	50 Hz to 20 kHz, ± 1 dB
THD+N at +20 dBu (unweighted):	<0.007%
SNR at +20 dBu (A-weighted):	>90 dB
Crosstalk at +20 dBu:	<-80 dB
CMRR:	> 85 dB

Ports

Keypanel:
    Audio IN
    Audio OUT
    RS-485 Data
	DB-9M

Configuration: RS-232 Data	DB-9F
Accessory Port: RS-422 Data	DB-9F
Trunking Port: RS-232 Data	DB-9M
GPIO: TTL Active Low	DB-25F

Physical/Power

Power Requirements: *(Note: Primary and backup supplies are identical)*	90-250 VAC, 50/60 Hz, 60 W
Size:	3.5" x 19" x 17"
Approvals:	UL, CE, CSA

Distributed by:

Suggested Accessories

MKP-12
Keypanel

MKP-4
Keypanel

WKP-1
Industrial Keypanel

BKP-4
Desktop Keypanel

WKP-4
Wall Mount Keypanel

TIF-2000
Telephone Interface Keypanel

SSA-424
System-to-System Adapter

All specifications are subject to change without notice.

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