



## Zeus

### Digital Matrix Intercom System

The Zeus DSP Matrix Intercom System not only provides superior performance and reliability for all your communications needs, but can also function as the heart of a complete audio mixing/routing and control systems for many facilities.

The RTS Zeus DSP Matrix intercom system provides 24 channels of high-quality audio in a compact 2-rack unit package. Each channel is capable of supporting any of the RTS line of matrix keypanels, or Four-Wire inputs and outputs for program and IFB feeds.

The Zeus system comes complete with AZedit, Windows based, full-featured configuration software, providing online and offline configuration capabilities. Meet any communication need without rewiring, jumper changes, or the need to take the system offline. Most changes can be made through the use of one of RTS' intelligent keypanels, where the more involved changes can be achieved either on or offline through the use of AZedit.

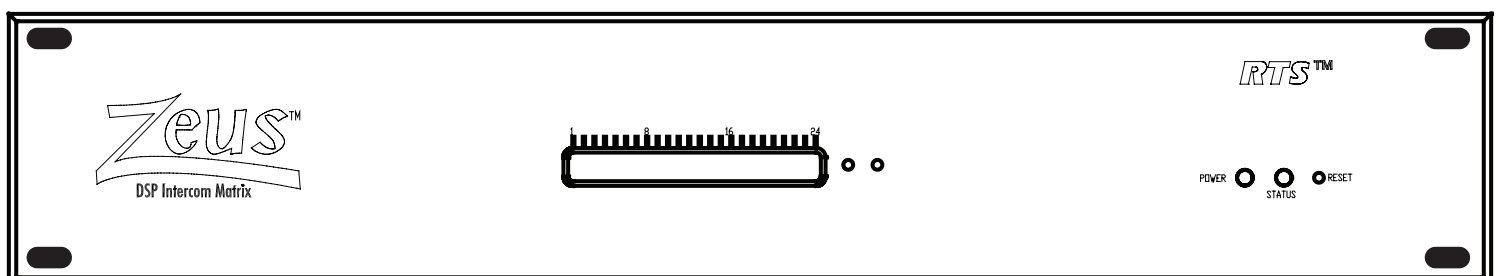
Zeus also comes standard with full support for Point-to-Point communications, party line conferences, IFBs, ISOLate, and special lists. With 8 GPI/Os, control of external devices, including two-way radios, VOXs, tally and alarm indicators, is greatly increased. A back panel serial port is also provided for connection of RTS accessories including additional GPI, level control panels, conference assign panels, and program assign panels.

## Features

- 24 Ports
- CD Quality Audio
- GPI/O Included

- Non-Volatile Memory
- Port Status LEDs
- Cost Effective

## Line Drawing



# Zeus Specifications

## Power Input

IEEC power connector with fuse and power switch. Internal switching power supply accepts 90-250 VAC, 50/60 Hz, 60 Watts max.

## Controls and Indicators

Power On / Off toggle switch, located on back panel  
Reset pushbutton switch, recessed in front panel  
Diagnostic pushbutton switches (2), recessed in front panel  
Power On indicator  
General Status Indicator  
Keypanel Status indicators (24)  
Zeus controller status indicator  
Zeus audio status indicator  
Zeusedit status indicator  
UIO-256 status indicator  
LCP-102 status indicator  
Miscellaneous diagnostic indicators (19, for service only)  
Note: all indicators located on front panel

## Analog Audio Specifications

Signal Type: Fully differential (balanced)  
Nominal Level: 8 dBu  
Maximum Level: 20 dBu  
Input Impedance: High (22 k $\Omega$ )  
Output Impedance: Low (600 $\Omega$ )  
A/D and D/A Specifications:  
Sampling Rate: 44.1 kHz  
Resolution: 20 Bits  
Converter Architecture: 128x Oversampling D-S Modulator

## Audio Performance

SNR at 20 dBu: (A-weighted): > 90 dB  
THD+N at 20 dBu, 1 kHz (Unweighted): < 0.007%  
Frequency Response at 20 dBu: within  $\pm 1$  dB from 50 Hz - 20 kHz  
Crosstalk at 20 dBu: < -80 dB  
CMRR: > 85 dB  
All measurements performed using an Audio Precision System 1  
Dual Domain System. Measurements were performed using a sine wave at: f = 1 kHz and Level = 20 dBu.  
Measurement bandwidth = 20 Hz to 20 kHz.

## Connections

Intercom Channels (J1 to J24)  
General: 4-wire, balanced audio; RS-485 data for optional intelligent keypanels  
Connector type: 9-pin male D-sub (DE-9P)  
Pin 1: Keypanel data +; Pin 2: Keypanel data -; Pin 3: Audio out shield; Pin 4: Audio in + (high); Pin 5: Audio in - (low); Pin 6: Keypanel data shield; Pin 7: Audio out - (low); Pin 8: Audio out + (high); Pin 9: Audio in shield

## Configuration Computer (J25)

General: RS-232 Serial port  
Connector type: 9-pin female D-sub (DE-9S)  
Pin 2: RX; Pin 3: TX; Pin 5: Ground

## Accessory Connector (J26)

General: An RS-485 data port for LCP-102 / PAP / UIO-256 connection.  
Connector type: 9-pin female D-sub (DE-9S)  
Pin 1: LCP-102 / PAP / UIO-256 RS-485 data -; Pin 2: ground; Pin 3: N/C; Pin 4: N/C; Pin 5: N/C; Pin 6: LCP-102 / PAP / UIO-256 RS-485 data +; Pin 7: ground; Pin 8: N/C; Pin 9: N/C

## GPI (General Purpose Interface) Connector (J27)

General: Provides 8 control inputs which can simulate keypanel keys, and 8 control outputs which can be assigned to keys and used to activate external devices.  
Connector type: 25-pin female D-sub

## Physical/Power

Power Requirements: 90-250 VAC, 50/60 Hz, 60W  
Size: 3.5" H x 19" W x 17 D" (88.9mm H x 482.6mm W x 431.8 D)  
Weight: 10.14 lbs (4.6 kg)

## Contact Information

Telex Communications, Inc.  
12000 Portland Avenue South  
Burnsville, Minnesota 55337  
Telephone: 877-863-4169  
Fax: 800-955-6831

Form Number: LIT000033000  
Date: April, 2006

## Ordering Information

**Zeus**  
Digital Matrix Intercom System  
Catalog Number: 90007634000

This specifications information is preliminary and is subject to change without notification.  
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