

TELEX®



Zeus™

DIGITAL MATRIX INTERCOM SYSTEMS

The Zeus DSP Intercom Matrix provides all the power and features of larger, more complex Matrix Intercom Systems, in a simple to use, compact, affordable package.



ZEUS™

Do you need the power and programmability of a top-of-the-line digital matrix intercom, but only have the budget for a party line intercom or analog matrix intercom system? Consider the professional quality, fully programmable Zeus DSP Intercom System. With the capabilities of a fully featured digital matrix intercom system, and designed for a "limited space" environment, the Zeus offers professional quality at an affordable price.

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 Telex RTS line of matrix keypanels, or 4 wire inputs and outputs for program and IFB feeds.

The Zeus system comes complete with AZ-Edit, 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 Telex's intelligent keypanels, where the more involved changes can be achieved either on or offline through the use of AZ-Edit.

Zeus uses the Telex® TDM ASIC to perform all audio switching and mixing in the digital realm. 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 of resolution, avoiding any degradation of communications, regardless of number of users on a given path.

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 Telex accessories including additional GPI, level control panels, conference assign panels, and program assign panels.

Starting with the wide range of user stations and accessories, Zeus and its accessories can fulfill any communications needs. Intelligent Telephone Interfaces, 2 wire to 4 wire auto-nulling hybrids, GPI/O and a wide assortment of user stations provide your complete communications solution. Add in Telex 2 wire beltpacks, Telex Wireless Intercoms, and Telex Headsets, and you've got all you need for any application.



24 PORTS

CD QUALITY AUDIO

GPI/O INCLUDED

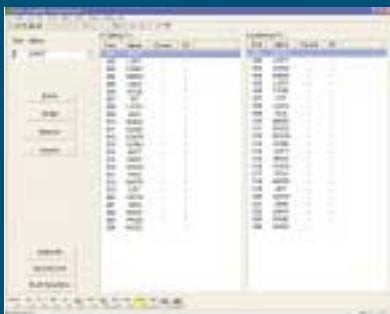
NON-VOLATILE MEMORY

PORT STATUS LEDS

COST EFFECTIVE

Software Configuration

Zeus is programmed using AZ-EDIT Software, which is included. Capable of off-line and on-line usage, AZ-EDIT is used to configure all options and to load pre-set files. In day to day operation, there is no need for AZ-EDIT to be present, as Zeus stores all status and user initiated changes internally in non-volatile memory.



ZEUS™ Accessories

Zeus is fully compatible with the full line of RTS Matrix keypanels and accessories (Zeus II required for Trunking). Listed below are the products most commonly used with Intercom Systems based on Zeus DSP Matrix.



MKP-4 User Station

The MKP-4 provides a good mix of capabilities and simplicity of operation in a 1/2 rack user station. 4 dual function lever keys, programming control cluster, and headset connection make this the ideal panel for many locations. Includes 90 – 250 VAC universal power supply.



WKP-4 User Station

The WKP-4 user station provides all the functionality of the MKP-4. Designed for wall-mounted applications, the WKP-4 is perfect for use in commercial sound and industrial settings. It is compatible with the Telex U series flush mount box. Perfect for mounting in walls, consoles, and custom enclosures, the WKP-4 requires 15 – 24 VDC at 1 Amp.



BKP-4 User Station

The BKP-4 user station starts with all the functionality of the MKP-4. Then it adds in a high quality speaker, and puts it into a rugged desktop enclosure for those applications where rack mounting is not practical. Includes 90 – 250 VAC universal power supply.



MKP-12 User Station

The MKP-12 provides the ultimate in capabilities and ease of use in a compact package. 12 dual action lever keys provide separate talk and listen control, and the oval control cluster and call waiting window provide ready access to scroll lists and other functions. The panel supports operation via gooseneck microphone and speaker or headset, and is one RU in height. Includes 90 – 250 VAC universal power supply.



SSA-424 System Adapter (Hybrid)

The SSA-424 hybrid provides two complete, independent hybrids in a compact 1/2 rack format. Convenient front panel controls allow easy setting of levels, and bright multi-section LED bar graphs display audio levels. Continuous digital auto-nulling means that your communications are always clear and optimized. Optional call signal detect allows direct interfacing to GPI/O on Zeus for specialized control applications. An analog version, the SSA-324, is available where automatic auto-nulling is not required.



TIF-2000 Telephone Interface

The TIF-2000 is a single channel telephone interface for Zeus, which provides precise control and routing of telephone calls to and from the intercom. Password protection is available for incoming calls, and access to outgoing telephone lines can be limited from AZ-EDIT. The TIF-2000 has an advanced digital hybrid for exceptional signal nulling and audio quality.



UIO-256 Universal GPI/O Interface

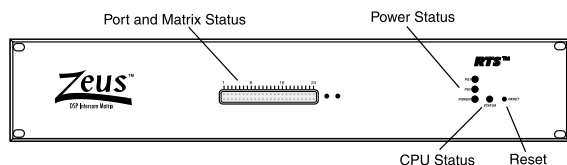
The UIO-256 augments the 8 GPI/O internal to Zeus matrices. The UIO-256 provides an additional 16 relay outputs, and 16 opto-isolated inputs, under the control of Zeus, for any external interface requirements. Up to 16 UIO-256 units can be combined on a Zeus matrix for 256 relay outs and 256 opto-isolated inputs.



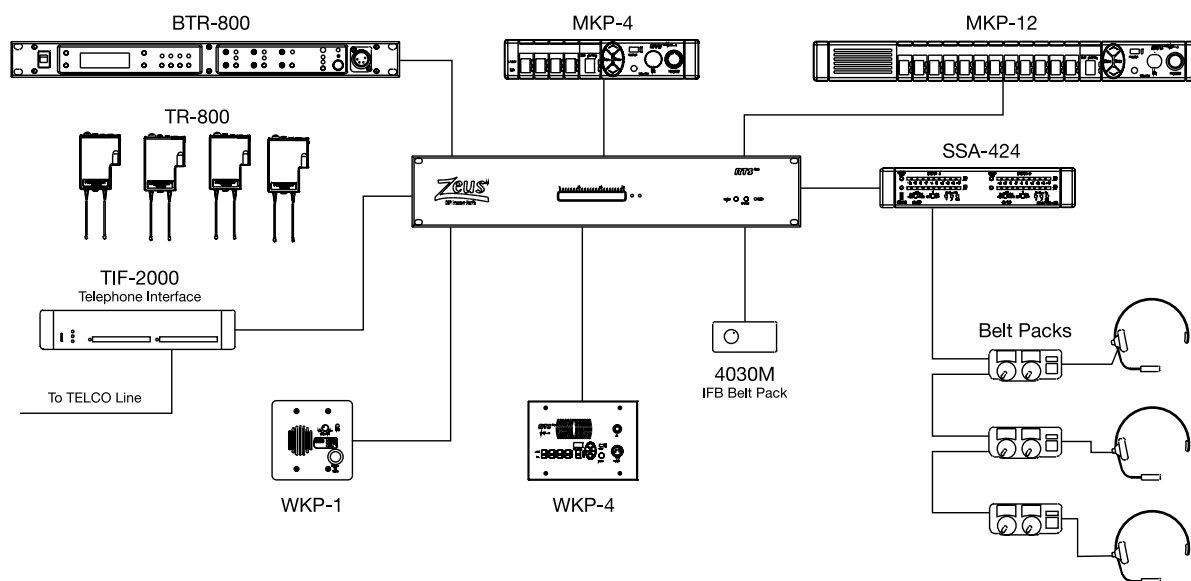
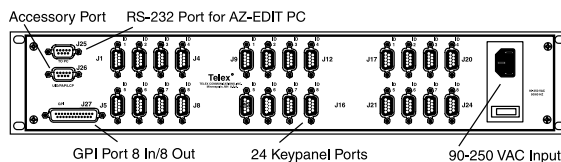
WKP-1 User Station

The WKP-1 user station provides extremely reliable SIMPLE communications for industrial applications. Perfect for shop floor, loading dock, security and heavy machinery installations, the weatherproof and vandal resistant panel is fully programmable and comes with relay contacts for door control and other uses. Locally or remotely powered, the WKP-1 requires 15 – 24 VDC at 500 mA.

Front View



Back View



Zeus Specifications

Matrix

Size:	24 Ports
Processing:	Digital, 45 bits
Conversion:	44.1 kHz, 20 bits
Programming:	AZ-Edit for 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

Keypoint:	DB-9M
Audio IN	
Audio OUT	
RS-485 Data	
Configuration:	DB-9F
RS-232 Data	
Accessory Port:	DB-9F
RS-422 Data	
GPI0:	DB-25F
TTL Active Low	

Physical/Power

Power Requirements:	90-250 VAC, 50/60 Hz, 60 W
Size:	3.5" x 19" x 17"
Approvals:	UL, CE, CSA

All specifications are subject to change without notice.

Distributed by:

Telex Communications, Inc.
12000 Portland Avenue South
Minneapolis, MN 55337
1-800-392-3497
fax: 1-800-323-0498
www.rtssystems.com

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