

AoIP DIGITAL AUDIO ROUTER MODEL : ELD100



DESCRIPTION

The Digital Audio Router interfaces and routes audio and data traffic to ELITE AoIP PAGA system elements. A wide range of analogue and digital audio sources can be interfaced, including Access Panels, CD/DVD, MIC stations & mixers, local & broadcast music. Data I/O interfaces are provided for logic inputs/outputs such as F&G, relay modules and other external control devices. Data inputs can be configured to be monitored. A front panel Graphical LCD displays status of the DAR and connected equipment. The DAR can be remotely configured from a PC or workstation connected to the same LAN. For security, the PC can be removed from the network after configuration is completed, alternatively it can be used for remote monitoring status, operation, event scheduling and logging. The DAR is designed to be mounted in a 19" rack.2U high but can be free-standing.

FEATURES

- Two Ethernet ports support dual homing or subnets
- Supports Layer 3 switching on FE or GBE networks
- Latency minimal & deterministic throughout the network
- 4 Analogue audio inputs transformer-isolated
- A to D conversion: up to 32 bits per sample
- Sampling Rate up to 192kbps
- Integral equalization & DSP
- 4 Analogue audio outputs 0dBm/ 600Ω
- 8 Digital inputs - monitored
- 8 Digital outputs
- Integral Tone/ message generation
- Flexible PAGA zone control
- Universal ac power supply 100V-240V nominal, 47-63Hz

MECHANICAL CHARACTERISTICS

Enclosure Dimensions	88 x 430 x 367 (H x W x D, in mm)
Weight	2.5 Kg
Material and Protective coating	Mild Steel, Powder coated enclosure

ELECTRICAL SPECIFICATION

DIGITAL AUDIO ROUTER	
Power Requirements	Values
Supply Voltage	96 to 264 Vac, 50/60 Hz
Secondary Supply Voltage	24 Vdc
Standby Power	Less than 10 VA
Maximum Power	20 VA
Withstand Voltage input to output	3.0kV ac
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500 V DC / 25°C/ 70% RH
Protection	Over-voltage, Over-load, Short-Circuit
Ripple	120 mVp-p
Digital Audio	
Digital Audio Format	I2S
Audio transport Format	Dante Audio over IP
Sampling Rate	48/96/192 kHz
Bit Depth	Up to 32 Bits
Analogue Audio	
Audio Input Level (nominal)	0dBm
Number of Inputs	4
Number of Outputs	4
Frequency Response	300 to 20,000 Hz
Distortion	Less than 0.5% @ rated power @ 1 KHz
Input Type/ Impedance	Balanced/ 600 Ohms / 10 k Ohms
Audio Output Level	0dBm
Isolation	Input and Output Transformer Coupled
Digital Input / Output	
No of Inputs	8
No of Outputs	8
Monitored Inputs	Yes
Network Interface	
Connector/ Number of Ports	Two/ RJ-45
Speed	100/1000 Mbps
IP Address	Static/Dynamic/Automatic
Layer 3 Switching	Yes

ENVIRONMENTAL RATING

IP Rating	IP-32
Hazardous Area Rating	Safe Area
Operating Temperature/ Humidity	5 °C to 65 °C/ 5-95% Non-condensing

ORDERING INFORMATION: ELD 100 Digital Audio Router