

Analog Stereo Audio Router Literature

- Randomly Switchable
- Analog audio routing
- Remotely accessible(LAN)
- Short Circuit Protected
- Excellent Isolation
- Ultra Low Noise
- Flat Frequency Response
- Extremely Low Distortion
- Universal Power Supply
- Wide Dynamic Range
- Easy and Simple Maintenance



Analog Stereo Audio Router AR16x16

DIGI-SYS ANALOG ROUTER AR 16x16 is a 1U rack-mount unit. AR series audio routers are state of the art XY cross matrix professional switching units. These high reliability products are designed for professional broadcast audio routing applications with versatile controls. Analog Audio router is a LSI based on wide band matrix switches which can route randomly any one of 16 analog audio inputs to provide 16 analog audio output signals. All inputs and outputs are active coupled. Units are available with high density D connectors and various breaks out cables and panels are available for ordering. Options include unbalanced and balanced connectors.

AR series routers are designed with most advanced switching controls, which include fail safe non-blocking switching logic. This is achieved by the multiple independent controllers for the UI and master controller for the execution of commands. All the user control switches are momentary contact sealed elements rated for many million operations. The light used are also redundant LED for each switch making it most reliable router series in the market.

The fail safe logic is divided in two sections where UI controller acts as master and senses the pressing of any of switch on its various control surfaces and sends it to master controller after encoding it. The master controller resident in the main unit receive switching instructions from one or many control panels including connected computers, it drives the LSI chip and update new set of connections. This update instruction can reconfigure all the 16 outputs if so selected. After updating the cross points it sends back updated matrix configuration data back to all control units for lighting up the respective selection buttons. This indication of the current status of matrix on all control units is the second part of the Fail Safe logic.

DIGI-SYS ANALOG ROUTER AR 16x16 utilizes the most advanced low noise integrated circuits in combination with best in discrete devices. Its all-round high performance makes the unit far superior in comparison to other units available in market. The series uses best in class connectors and hardware to make it the best professional routing unit, providing highest quality audio performance with extreme reliability in 24/7 operation for decades. Its superb design provide superior immunity to R.F pick up through input & output cables or power supply lines for better overall performance in Broadcast chains.

Technical Specification

ANALOG INPUTS

Input level	0dBu \pm 6dBu
Connectors	D-Connector 25 pin(DB-25) Female
No. Of inputs	16 Stereo
Maximum Input level	+20dBu
Input impedance	\geq 10K ohms (optionally 600 ohms)
Input selection	32 Illuminated switches on control panel

ANALOG OUTPUTS

Analog output	16 balanced Stereo (unbalanced available)
Output level	+0dBu nominal +24dBu max
Connectors	DB-25(D-Connector 25 pin) Male
No. of Output	16 Stereo
Output Impedance	<50 Ω
Cross talk	\geq 80dB
Distortion (THD)	<0.05%
Frequency Response	\pm 0.5dB (20Hz to 20KHz)
Signal to noise ratio	\geq 90 dB
Protected Against	Short circuit and Overload
Controls	Self-contained XY control on Front panel Remote XY panels and dedicated bus panels Serial, and LAN control interface

MECHANICAL

Size – H x W x D	44.5mm x 483mm x 203mm (1.75"X19"X8") 19" rack mount
Color Finish	Black
Weight	5.0 kg

Power

Power	230 V \pm 10%, 50 Hz, 20VAMax 110V \pm 10%, 60Hz 20VAMax(Available with 110/230V)
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Note: - Specifications are subject change without notice.