

# MATRIX AD-8x8

## AEV Broadcast Digital Audio Matrix



8 Balanced Analog Stereo Inputs

8 Balanced Analog Stereo Outputs

Digital AES/EBU Inputs (Optional)

Digital AES/EBU Outputs (Optional)

RGB Key to input & input selection

Digitally Outputs Level Adjust

DSP powered

Software Ethernet control

Connectors Audio TRS, RJ45

Display input/output level adjust



## TECHNICAL DETAILS

Frequency response	20Hz ÷ 15 KHz FM version
Stop band rejection	> 80 dB beyond 1 KHz
Total distortion	< 0,005 %
L/R cross talk	≤ -70dB,20Hz-15KHz
Operation Mono mode	L+R, only R, only L

## ANALOG AUDIO INPUT

Configuration	Left and Right
Impedance	10 KΩ / 600Ω balanced
CMRR	>45dB from 30 to 15 KHz
A/D Conversion	192 kHz sample rate
Sensitivity	±13dBu
Maximum input level	+15 dBu
Connector	XLR-type, female, Pin 1 Chassis, Pin 2 & 3 electronically balanced, floating and symmetrical

## DIGITAL INPUT

Digital input configuration	AES 3 professional (IEC-60958)
Digital AES 3 Input Impedance	110 ohmBalanced
Digital AES 3 Input Connector	XLR Female
Sample Rate Automatic lock	32 - 44.1 - 48 - 96 - 192 KHz
Resolution	24 Bit

## ANALOG AUDIO OUTPUT

Configuration	Left and Right. Flat or pre-emphasized (50μS – 75μS)
Impedance	30 Ω electronically balanced and floating
Minimum load impedance	600 Ω
Maximum output level	+24 dBu
CMRR Output:	>80dB (20Hz-20kHz)
Connector	XLR-type male Pin 1 Chassis, Pin 2 & 3 electronically balanced, floating and symmetrical

## DIGITAL OUTPUT

Digital Output Sample Rate	Software Selectable 32 - 44.1 - 48 - 96 - 192 KHz
Resolution	24 Bit
Digital Output configuration	Stereo AES3 Transformer Balanced (IEC-60958)
Digital Output Impedance	110 Ω Balanced
Digital Output Level range	0,0 dBFs ÷ -36 dBFs adjustable
Digital Output Connector	XLR Male

## STEREO GENERATOR (version MPX only)

Configuration	two outputs + digital 192 KHz
Pilot freq.	19 KHz ± 0.001% Max over temp.
Pilot injection	+4 ÷ 18%
Distortion	<0.005%@1kHz
Noise signal ratio	74 dB (Din Audio,Bypass mode) Typical
Stereo separation	78 dB Typical
38 kHz subcarrier suppression	>85 dB
76 kHz suppression	>85 dB
Composite audio level	0 ÷ 15dB
Connectors	BNC
Output impedance	50 Ω

## 12.7 DATA

Terminal Interface	Ethernet / RS232- at rear, asynchronous
Data Input	Full duplex
Format	Selectable
Serial Transmission Speed	2400 ÷ 19600 baud
Connector	RJ45 / RS232/ USB
Data management	Microprocessor controlled Non volatile memory Flash data retention 10 years

## 12.8 Logic I/O

Connector	DB15 cannon female
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## 12.9 GENERAL

Mains Voltage	90–260Vac/50Hzfullrange
Dimension	(WxHxD) 48,3 x 19,4 x 4,4 cm 1 rack unit
Weight	3,9 Kg.
Operating Temp.	0 ÷ 50°C.
Operating Humidity.	Max 95% not condensing