

Specifications

MAV Plus 64 Series

Video — video BMEs

Routing.....	64 x 64, 64 x 48, 64 x 32, 48 x 64, 48 x 48, 48 x 32, 32 x 48, or 32 x 64 matrix
Gain.....	Unity
Bandwidth.....	150 MHz (-3 dB), fully loaded
0 - 10 MHz.....	No more than +0.1 dB to -0.1 dB
0 - 130 MHz.....	No more than +0.1 dB to -0.1 dB
Crosstalk.....	-80 dB @ 1 MHz, -62 dB @ 10 MHz, -52 dB @ 30 MHz
Switching speed.....	200 ns (max.)

Video input — video BMEs

Number/signal type.....	32, 48, or 64 composite video
Connectors.....	32, 48, or 64 female BNC
Nominal level.....	1 Vp-p for composite video
Minimum/maximum levels.....	Analog: 0.5 V to 2.0 Vp-p with no offset
Impedance.....	75 ohms
Horizontal frequency.....	15 kHz to 150 kHz
Vertical frequency.....	30 Hz to 150 Hz
Return loss.....	<-30 dB @ 5 MHz
DC offset (max. allowable).....	1.5 V

Video output — video BMEs

Number/signal type.....	32, 48, or 64 composite video
Connectors.....	32, 48, or 64 female BNC
Nominal level.....	1 Vp-p for composite video
Minimum/maximum levels.....	0 V to 2.0 Vp-p (follows input)
Impedance.....	75 ohms
Return loss.....	<-30 dB @ 5 MHz
DC offset.....	±5 mV with input at 0 offset
Switching type.....	Vertical interval

Sync — video BMEs

Genlock connectors.....	1 female BNC
Standards.....	NTSC 3.58, NTSC 4.43, PAL, SECAM

Audio — audio BMEs

Routing.....	(32, 48, or 64) x (32, 48, or 64) stereo or mono matrix
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NOTE: Both stereo (2 channel) and mono (1 channel) audio models are available.

Gain.....	Unbalanced output: -6 dB; balanced output 0 dB
Frequency response.....	20 Hz to 20 kHz, ±0.05 dB
THD + Noise.....	0.03% @ 1 kHz at nominal level
S/N.....	>90 dB, balanced, at maximum output (21 dBu), unweighted
Crosstalk.....	<-80 dB @ 1 kHz, fully loaded
Stereo channel separation.....	>80 dB @ 1 kHz
CMRR.....	>75 dB @ 20 Hz to 20 kHz

Audio input — audio BMEs

Number/signal type	32, 48, or 64 stereo balanced/unbalanced or 32, 48, or 64 mono balanced/unbalanced
Connectors	
Stereo models.....	(32, 48, or 64) 3.5 mm captive screw connectors, 5 pole
Mono models	(32, 48, or 64) 3.5 mm captive screw connectors, 3 pole
Impedance	>10k ohm, balanced/unbalanced, DC coupled
Nominal level	-10 dBV (316 mVrms)
Maximum level.....	+19.5 dBu, (balanced or unbalanced) at 1% THD+N
Input gain adjustment	-18 dB to +24 dB, adjustable per input by RS-232/422, Ethernet, or front panel

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV \approx 2 dBu

Audio output — audio BMEs

Number/signal type	32, 48, or 64 stereo balanced/unbalanced or 32, 48, or 64 mono balanced/unbalanced
Connectors	
Stereo models.....	(32, 48, or 64) 3.5 mm captive screw connectors, 5 pole
Mono models	(32, 48, or 64) 3.5 mm captive screw connectors, 3 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Gain error	\pm 0.1 dB channel to channel
Maximum level (Hi-Z).....	>+21 dBu, balanced or unbalanced at 0.1% THD+N
Maximum level (600 ohm).....	>+15 dBm, balanced or unbalanced at 0.1% THD+N
Output volume range	0 to 64 (-98 dB to 0 dB) in 0.5 dB increments from steps 1 to 64, 35 dB increment from step 0 to 1

Control/remote — switcher

Serial control port.....	1 RS-232 or RS-422 female 9-pin D connector (rear panel) 1 RS-232 2.5 mm phone jack (front panel)
Baud rate and protocol.....	9600 (default), 19200, 38400, 115200 baud (adjustable); 8 data bits, 1 stop bit, no parity
Serial control pin configurations	RS-232: 2 = Tx, 3 = Rx, 5 = GND RS-422: 2 = Tx-, 3 = Rx-, 5 = GND, 7 = Rx+, 8 = Tx+
Ethernet control port.....	1 female RJ-45 connector
Ethernet data rate	10/100Base-T, half/full duplex with autodetect
Ethernet protocol	ARP, ICMP (ping), TCP/IP, DHCP, HTTP, Telnet
Program control	Extron control/configuration program for Windows® Extron Simple Instruction Set (SIS™) Microsoft® Internet Explorer, Telnet

General

Power	100 VAC to 240 VAC, 50-60 Hz, internal, primary and redundant
Video models.....	110 watts at 115 VAC, 60 Hz
All audio models.....	195 watts at 115 VAC, 60 Hz

NOTE: A redundant power supply is standard.

Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling	
Video models.....	Convection, vents on right and left sides
Audio models	Fan, right to left (viewed from the front panel)
Mounting.....	Rack mountable with included parts
Enclosure type	Metal

Enclosure dimensions

Video BMEs	10.5" H x 17.0" W x 14.1" D (6U high, full rack wide) (26.7 cm H x 43.2 cm W x 35.8 cm D)
Audio BMEs	12.25" H x 17.0" W x 14.1" D (7U high, full rack wide) (31.1 cm H x 43.2 cm W x 35.8 cm D)

Product weight per BME

32 x 48 through 64 x 64 Series video BMEs	18.0 lbs (8.2 kg)
32 x 48 through 64 x 64 Series stereo audio BMEs	19.0 lbs (8.6 kg)
32 x 48 through 64 x 64 Series mono audio BMEs	18.5 lbs (8.4 kg)

Shipping weight per BME

32 x 48 through 64 x 64 Series video BMEs	29 lbs (13 kg)
32 x 48 through 64 x 64 Series stereo audio BMEs	31 lbs (14 kg)
32 x 48 through 64 x 64 Series mono audio BMEs	30 lbs (14 kg)

DIM weight, international, per BME 44 lbs (20 kg)

Vibration ISTA 1A in carton (International Safe Transit Association)

Regulatory compliance

Safety	CE, c-UL, UL
EMI/EMC	CE, C-tick, FCC Class A, ICES, VCCI

Warranty 3 years parts and labor

NOTE: All nominal levels are at $\pm 10\%$.

NOTE: Specifications are subject to change without notice.

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