

Specifications — Matrix 200 Series Switchers

Video input — high resolution analog module

Number/type	4 or 8 RGBHV, RGBS, RGsB, component video, S-video
Connectors	4 or 8 x (3 or 4) BNC female
Nominal level(s)	Analog — 1.0V p-p
Maximum level(s)	Analog — 0.3V to 1.0V p-p with no offset
Impedance	75 ohms
Return loss	-20dB @ 10 MHz, -50dB @ 200 MHz
Maximum DC offset	±0.30V p-p
External sync (genlock)	0.3V to 0.4V p-p

Video throughput — high resolution analog module

Routing	4 X 4, 8 X 4, or 8 X 8 matrix
Gain	Unity ± 1%
Bandwidth	410 MHz (-3dB), fully loaded
Crosstalk	-50dB @ 10 MHz, -30dB @ 100 MHz, -30dB @ 200 MHz
Switching speed	200 nS

Video output — high resolution analog module

Number/type/format	4 or 8 RGBHV, RGBS, RGsB, component video, S-video
Connectors	4 or 8 x (3 or 4) BNC female
Impedance	75 ohms
DC offset	± 0.30V maximum
Switching type	Triple-action switching

Video input — composite video module

Number/type	4 or 8 composite video
Connectors	4 or 8 BNC female
Nominal level(s)	Analog — 1.0V p-p
Maximum level(s)	Analog — 0.5V to 1.3V p-p
Impedance	75 ohms
Return loss	-30dB @ 5 MHz
Maximum DC offset	± 0.30V maximum
External sync (genlock)	0.3V to 0.4V p-p

Video throughput — composite video module

Routing	4 X 4, 8 X 4, or 8 X 8 matrix
Gain	Unity
Bandwidth	175 MHz (-3dB), fully loaded
Frequency response	-0.5dB @ 5 MHz, -3.0dB @ 15 MHz
Differential phase error	1.3° @ 0 to 10 MHz
Differential gain error	0.5% @ 0 to 10 MHz
Crosstalk	>+40dB @ 5 MHz
Isolation	>+40dB @ 5 MHz
CMRR	-60dB

Video output — composite video module

Number/type/format	4 or 8 composite video
Connectors	4 or 8 BNC female
Impedance	75 ohms
DC offset	±0.30V maximum
Switching type	Vertical interval

Sync — sync module

Connectors	4 or 8 BNC female
Input impedance	510 ohms
Output impedance	75 ohms
Max. input voltage	±5V p-p
Input sensitivity	0.5V p-p
Max. propagation delay	64 nS H to L (41 nS L to H)
Max. rise/fall time	8 nS H to L (3.6 nS H to L)
Polarity	Positive or negative (follows input)

Audio input — audio module

Number/type	8 stereo, balanced/unbalanced
Connectors	8 5 mm captive screw terminal, 6 conductor
Impedance	20 kohms balanced, 10 kohms unbalanced; AC coupled
Maximum level	+28.7dBu, (balanced or unbalanced) @ stated %THD+N
Input gain adjustment	-95.5dB to +31.5dB, adjustable separately on both left and right channels per input

Audio throughput — audio module

Routing	8 X 8 stereo matrix
Gain	Consumer output 0dB unbalanced, +6dB balanced Professional output +14dB unbalanced, +20dB balanced
Frequency response	±0.05dB @ 20 Hz to 20 kHz
THD + Noise	0.03% @ 20 kHz at rated maximum output drive (+22dBu balanced input & output)
Bandwidth	Flat ±0.1dB, 20Hz to 20kHz, balanced
S/N	> 110dB, output 15dBu, normalized, 20 Hz to 20 kHz
Adjacent input crosstalk	> -85dB @ 20 Hz to 20 kHz
Stereo channel separation	> 60dB @ 20 Hz to 20 kHz, balanced
CMRR	> -55dB worst case @ 20 kHz (-65dB typical), balanced

Audio output — audio module

Number/type	8 stereo, balanced
Connectors	8 5 mm captive screw terminal, 6 conductor
Impedance	100 ohms balanced, 50 ohms unbalanced; AC coupled
Gain error	±0.1dB channel to channel
Drive (600 ohm)	> +28.7dBu, balanced

Control/Remote — switcher (BME)

Serial control port	1 RS-232 or RS-422, 9-pin female D connector
Baud rate and protocol	9600, 8-bit, 1 stop bit, no parity
Pin configurations	2 = TX, 3 = RX, 5 = GND
Extron remote key pad control .	1 RJ11 female jack
Program control	Extron's control program for Windows® Extron's Advanced Instruction Set™ – AIS™

Specifications — Matrix 200 Series Switchers (continued)

General

Power	100VAC to 240VAC, 50/60 Hz, 60 Watts, internal, auto-switchable
Temperature/humidity	Storage -40° to +158°F (-40° to +70°C) / 10% to 90%, non-condensing Operating +32° to +122°F (0° to +50°C) / 10% to 90%, non-condensing
Rack mount	Yes, 4U high
Enclosure type	Metal
Enclosure dimensions	6.8" H x 17.0" W x 15.0" D 17.3 cm H x 43.2 cm W x 38.1 cm D
Shipping weight	25 lbs (11.3 kg) DIM weight 37
Vibration	NSTA 1A in carton (National Safe Transit Association)
Approvals	UL, CUL, CE
Warranty	2 years parts and labor

NOTE *Specifications are subject to change without notice.*

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