

Specifications — CrossPoint Series Matrix Switchers

Video

Routing	84 Series	8 x 4 matrix
	88 Series	8 x 8 matrix
	124 Series	12 x 4 matrix
	128 Series	12 x 8 matrix
	168 Series	16 x 8 matrix
	1616 Series	16 x 16 matrix
Gain	Unity	
Bandwidth	200 MHz (-3dB), fully loaded	
	0 - 10 MHz	no more than +0.1dB to -0.1dB
	0 - 130 MHz	no more than +6dB to -0.8dB
Crosstalk	-50dB @ 5 MHz, -45dB @ 10 MHz	
Switching speed	200 ns(max.)	

Video input

Number/signal type	8, 12, or 16 RGBHV, RGBS, RGsB, RsGsBs, HDTV, component video, S-video, composite video	
Connectors	84/88 Series	8 x 5 BNC female
	124/128 Series	12 x 5 BNC female
	168/1616 Series	16 x 5 BNC female
Nominal level	1V p-p for Y of component video and S-video, and for composite video	
	0.7V p-p for RGB	
	0.3V p-p for R-Y and B-Y of component video, and for C of S-video	
Minimum/maximum levels	Analog: 0.5V to 2.0V p-p	
Impedance	75 ohms	
Return loss	-30dB @ 5 MHz	
Maximum DC offset	1.5V	

Video output

Number/signal type	4, 8, or 16 RGBHV, RGBS, RGsB, RsGsBs, HDTV, component video, S-video, composite video	
Connectors	84/124 Series	4 x 5 BNC female
	88/128 Series	8 x 5 BNC female
	168 Series	8 x 5 BNC female
	1616 Series	16 x 5 BNC female
Nominal level	1V p-p for Y of component video and S-video, and for composite video	
	0.7V p-p for RGB	
	0.3V p-p for R-Y and B-Y of component video, and for C of S-video	
Minimum/maximum level	2V p-p	
Impedance	75 ohms	
Return loss	-30dB @ 5 MHz	
DC offset	±5mV maximum with input at 0 offset	

Sync

Input type	RGBHV, RGBS, RGsB, RsGsBs	
Output type	RGBHV, RGBS, RGsB, RsGsBs	
Input level	0.5V to 5.0V p-p, 4.0V p-p normal	
Output level	AGC to TTL: 4V to 5V p-p, unterminated	
Input impedance		
84/88/124/128 Series	All inputs	510 ohms
168/1616 Series	Inputs 1, 3, 5, 7	75 or 510 ohms, switchable
	Inputs 2, 4, 6, 8, and 9 through 16 ...	510 ohms
Output impedance	75 ohms	
Polarity	Positive or negative (follows input)	

Audio — audio models only

Routing	84 Series	8 x 4 stereo matrix
	88 Series	8 x 8 stereo matrix
	124 Series	12 x 4 stereo matrix
	128 Series	12 x 8 stereo matrix
	168 Series	16 x 8 stereo matrix
	1616 Series	16 x 16 stereo matrix
Gain	Unbalanced output: 0dB; balanced output: +6dB	
Frequency response	20 Hz to 20 kHz, ± 0.05 dB	
THD + Noise	0.03% @ 1 kHz at rated nominal level	
S/N	>90dB, balanced, at rated maximum output (21dBu)	
Crosstalk	<-80dB @ 1 kHz, fully loaded	
Stereo channel separation	>80dB @ 1 kHz	
CMRR	>75dB @ 20 Hz to 20 kHz	

Audio input — audio models only

Number/signal type	8, 12, or 16 stereo, balanced/unbalanced
Connectors	(8, 12, or 16) 3.5 mm captive screw connectors, 5 pole
Impedance	>10 kohms unbalanced/balanced, DC coupled
Nominal level	-10dBV (316mV)
Maximum level	+19.5dBu, (balanced or unbalanced) at 1%THD+N
Input gain adjustment	-15dB to +9dB, adjustable per input by RS-232 or front panel

Audio output — audio models only

Number/signal type	4, 8, or 16 stereo, balanced/unbalanced
Connectors	(4, 8, or 16) 3.5 mm captive screw connectors, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Gain error	± 0.1 dB channel to channel
Maximum level (Hi-Z)	>+21dBu, balanced or unbalanced at stated %THD+N
Maximum level (600 ohm)	>+15dBm, balanced or unbalanced at stated %THD+N

NOTE 0dBu = 0.775 volts (RMS).

Control/remote — switcher

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
Serial control pin configurations	2 = TX, 3 = RX, 5 = GND
Program control	Extron's control program for Windows® Extron's Simple Instruction Set™ – SIS™

General

Power	100VAC to 240VAC, 50/60 Hz, internal, auto-switchable
	84/88/124/128 Series 30 watts
	168/1616 Series 36 watts
Temperature/humidity	Storage -40° to +158°F (-40° to +70°C) / 10% to 90%, non-condensing Operating +32° to +104°F (0° to +40°C) / 10% to 90%, non-condensing
Rack mount	Yes, with included parts
Enclosure type	Metal
Enclosure dimensions	
84/88/124/128 Series	5.25" H x 17.0" W x 9.4" D (3U high, full rack width) (13.3 cm H x 43.2 cm W x 23.9 cm D) (Depth excludes connectors. Width excludes rack ears.)
168/1616 Series	10.5" H x 17.0" W x 9.7" D (6U high, full rack width) (26.7 cm H x 43.2 cm W x 24.6 cm D) (Depth excludes connectors. Width excludes rack ears.)

Specifications — CrossPoint 84/88/128/168/1616 (continued)

Product weight	
CrossPoint 84/88/124/128	14.8 lbs (6.7 kg)
CrossPoint 168/1616 Series	19.4 lbs (8.8 kg)
Shipping weight	
CrossPoint 84/88/124/128	21 lbs (9.5 kg)
	DIM weight 25
CrossPoint 168/1616	26 lbs (11.8 kg)
	DIM weight 34
Vibration	ISTA/NSTA 1A in carton (International Safe Transit Association)
Listings	UL, CUL
Compliances	CE, FCC Class A
Warranty	3 years parts and labor

NOTE *Specifications are subject to change without notice.*

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