

# CrossPoint™ Ultra Series

Ultra-Wideband Matrix Switchers with ADSP™ for RGB and Stereo Audio



## DESCRIPTION

CrossPoint™ Ultra ultra-wideband matrix switchers are designed to deliver exceptional performance in the most demanding, very high resolution computer-video and stereo audio routing systems. CrossPoint Ultra sets a new standard for engineering excellence in all critical measures of matrix switcher performance, including bandwidth, frequency response, efficiency, reliability, power consumption, and control. CrossPoint Ultra is available in six I/O sizes from 8x4 to 16x16 and is ideal for complex A/V routing applications that require efficient, reliable operation at the highest computer-video resolutions without signal loss or degradation.

## SERIES FEATURES

- Ultra-wideband performance - 525 MHz to 600 MHz (-3dB), depending on model
- Ultra-flat frequency response -  $\pm 0.5$  dB from 0 to 130 MHz
- Ultra-low crosstalk - (-56) dB or better at 100 MHz
- Ultra-low power consumption - 40 watts or less at 120 VAC
- Ultra-flexible control
- ADSP™ - Advanced Digital Sync Processing technology
- DSVP™ - Digital Sync Validation Processing
- RS-232 and RS-422 control port
- Control software
- IP Link® Ethernet monitoring and control
- IP Link enhanced diagnostics

## SPECIFICATIONS

### VIDEO

<b>Bandwidth</b>	
84/88/128 Series	600 MHz (-3 dB), fully loaded
1212/168/1616 Series	525 MHz (-3 dB), fully loaded

### VIDEO INPUT

<b>Nominal level</b>	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and R-Y and B-Y of component video 0.3 Vp-p for C of S-video
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### VIDEO OUTPUT

<b>Nominal level</b>	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and R-Y and B-Y of component video 0.3 Vp-p for C of S-video
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### SYNC

<b>Output type</b>	RGBHV, RGBS, RGSB, RSGBs (follows input)
<b>Input level</b>	0.5 V to 5.0 Vp-p, 4.0 Vp-p normal

<b>Output level</b>	AGC to TTL: 4.0 V to 5.0 Vp-p, unterminated
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### AUDIO — AUDIO MODELS ONLY

<b>Frequency response</b>	20 Hz to 20 kHz, $\pm 0.05$ dB
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### AUDIO INPUT — AUDIO MODELS ONLY

<b>Nominal level</b>	+4 dBu (1.228 Vrms)
<b>Input gain adjustment</b>	-18 dB to +24 dB (default = 0 dB), adjustable per input by RS-232/422, Ethernet, or front panel

### AUDIO OUTPUT — AUDIO MODELS ONLY

<b>Maximum level (Hi-Z)</b>	>+21 dBu, balanced or unbalanced at 1.0% THD+N
<b>Maximum level (600 ohm)</b>	>+20 dBm, balanced or unbalanced at 1.0% THD+N
<b>Output volume range</b>	0 to 64 (-75.8 dB to 0 dB) in 1 dB increments from steps 1 to 64, in 12 dB increment from step 0 to 1; default = 64 = 0 dB

### CONTROL/REMOTE — SWITCHER

<b>Serial host control port</b>	1 bidirectional RS-232 or RS-422, rear panel female 9-pin D connector 1 bidirectional RS-232, front panel 2.5 mm mini stereo jack
<b>Ethernet control port</b>	1 female RJ-45 connector

### GENERAL

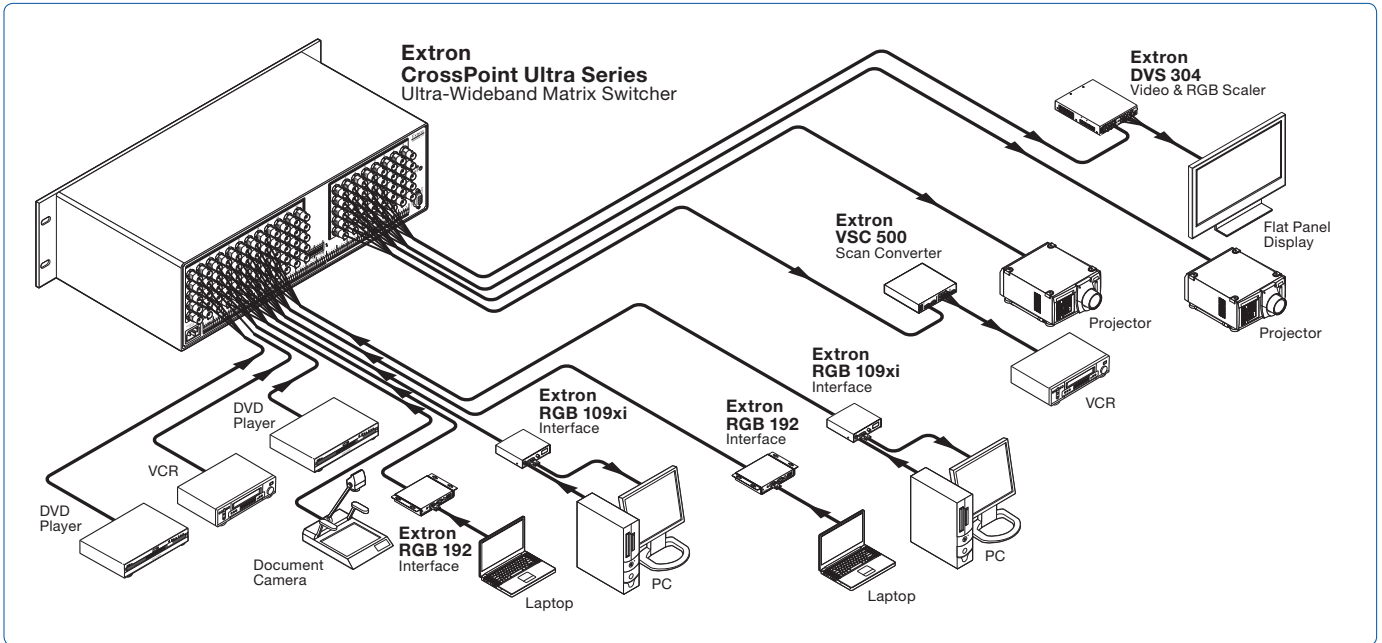
<b>Power</b>	100 VAC to 240 VAC, 50-60 Hz, internal, primary and redundant
84/88/128 Series	35 watts (typical) 38 watts (loaded)
1212/168/1616 Series	45 watts (typical) 52 watts (loaded)

<b>Mounting</b>	
Rack mount	Yes
<b>Enclosure type</b>	Metal
<b>Enclosure dimensions</b> (Depth excludes connectors. Width excludes rack ears.)	

84/88/128 Series	5.25" H x 17.0" W x 9.4" D (3U high, full rack wide) (13.3 cm H x 43.2 cm W x 23.9 cm D)
1212/168/1616 Series	10.5" H x 17.0" W x 9.7" D (6U high, full rack wide) (26.7 cm H x 43.2 cm W x 24.6 cm D)

<b>Product weight</b>	
84/88/128 Series	14.4 lbs (6.5 kg)
1212/168/1616 Series	19.4 lbs (8.8 kg)

For complete specifications, please go to [www.extron.com](http://www.extron.com)



## CrossPoint Ultra 84 8x4 Ultra-Wideband Matrix Switchers with ADSP™ for RGB and Stereo Audio

**UNIQUE FEATURES**

- 600 MHz (-3 dB) RGB video bandwidth, fully loaded
- 3U, full rack width



CrossPoint Ultra 84 HVA

MODEL	VERSION DESCRIPTION	PART #
CrossPoint Ultra 84 HV	8x4 RGBHV.....	60-337-22
CrossPoint Ultra 84 HVA	8x4 RGBHV & Stereo Audio.....	60-337-21

## CrossPoint Ultra 88 8x8 Ultra-Wideband Matrix Switchers with ADSP™ for RGB and Stereo Audio

**UNIQUE FEATURES**

- 600 MHz (-3 dB) RGB video bandwidth, fully loaded
- 3U, full rack width



CrossPoint Ultra 88 HVA

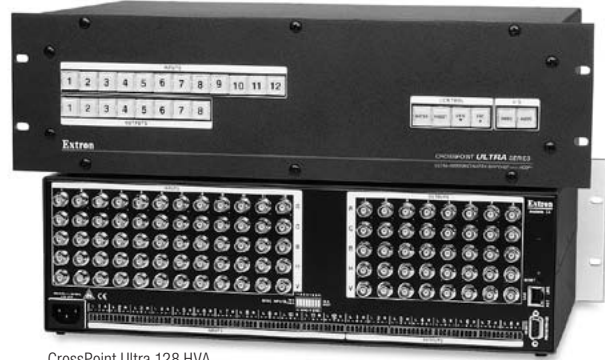
MODEL	VERSION DESCRIPTION	PART #
CrossPoint Ultra 88 HV	8x8 RGBHV.....	60-336-22
CrossPoint Ultra 88 HVA	8x8 RGBHV & Stereo Audio.....	60-336-21

# CrossPoint Ultra 128

12x8 Ultra-Wideband Matrix Switchers with ADSP™ for RGB and Stereo Audio

**UNIQUE FEATURES**

- 600 MHz (-3 dB) RGB video bandwidth, fully loaded
- 3U, full rack width



CrossPoint Ultra 128 HVA

MODEL	VERSION DESCRIPTION	PART #
CrossPoint Ultra 128 HV	12x8 RGBHV .....	60-334-22
CrossPoint Ultra 128 HVA	12x8 RGBHV & Stereo Audio .....	60-334-21

# CrossPoint Ultra 1212

12x12 Ultra-Wideband Matrix Switchers with ADSP™ for RGB and Stereo Audio

**UNIQUE FEATURES**

- 525 MHz (-3 dB) RGB video bandwidth, fully loaded
- 6U, full rack width



CrossPoint Ultra 1212 HVA

MODEL	VERSION DESCRIPTION	PART #
CrossPoint Ultra 1212 HV	12x12 RGBHV .....	60-852-22
CrossPoint Ultra 1212 HVA	12x12 RGBHV & Stereo Audio .....	60-852-21

# CrossPoint Ultra 168

16x8 Ultra-Wideband Matrix Switchers with ADSP™ for RGB and Stereo Audio

**UNIQUE FEATURES**

- 525 MHz (-3 dB) RGB video bandwidth, fully loaded
- 6U, full rack width



CrossPoint Ultra 168 HVA

MODEL	VERSION DESCRIPTION	PART #
CrossPoint Ultra 168 HV	16x8 RGBHV .....	60-333-22
CrossPoint Ultra 168 HVA	16x8 RGBHV & Stereo Audio .....	60-333-21

# CrossPoint Ultra 1616

16x16 Ultra-Wideband Matrix Switchers with ADSP™ for RGB and Stereo Audio

## UNIQUE FEATURES

- 525 MHz (-3 dB) RGB video bandwidth, fully loaded
- 6U, full rack width



CrossPoint Ultra 1616 HVA

MODEL	VERSION DESCRIPTION	PART #
CrossPoint Ultra 1616 HV	16x16 RGBHV.....	60-332-22
CrossPoint Ultra 1616 HVA	16x16 RGBHV & Stereo Audio.....	60-332-21