SW HDMI Series

HDMI SWITCHERS WITH EDID MINDER

▸ **EDID Minder® automatically manages EDID communication between connected devices**

▸ **Supports computer-video to 1920x1200, including HDTV 1080p/60 and 2K**

▸ **Supports HDMI specification features including data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, Lip Sync, and HD lossless audio formats**

▸ **HDCP compliant**

▸ **HDCP authentication and signal presence confirmation via front panel LEDs**

▸ **Automatic color bit depth management**

▸ **Automatic input cable equalization**

▸ **Multiple control options including front panel, RS-232, IR, contact closure, and auto-input switching**

▸ **Rack-mountable 1U metal enclosure**

SW4 HDMI

SW8 HDMI

The Extron SW HDMI Series are two, four, six, and eight input HDMI switchers. They feature EDID Minder, an Extron-exclusive technology that ensures the reliable display of digital video. These switchers are ideal for use anywhere multiple HDMI sources need to be switched to one digital display device.

Extron Electronics
INTERFACING, SWITCHING AND CONTROL

DESCRIPTION

The Extron **SW HDMI Series** are two, four, six, and eight input HDMI switchers. They support HDMI specification features including data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, Lip Sync, and HD lossless audio formats. The SW HDMI Series switchers are HDCP compliant and support all HDTV rates including 1080p/60, 2K, and computer-video signals up to 1920x1200. They feature EDID Minder, which maintains continuous EDID communication. The SW HDMI Series switchers are ideal for applications that require the routing of multiple HDMI sources to a single display.

To enhance and simplify integration, all models feature EDID Minder, an Extron-exclusive technology that automatically manages EDID information between the display connected to the switcher's output and all input sources. EDID Minder ensures that all HDMI sources power up properly and maintain video output, even if the display device is off.

The SW HDMI Series offers integrator-friendly features, including automatic input cable equalization, automatic color bit depth management, indicators for monitoring and troubleshooting, as well as peripheral device power on each output. Automatic input cable equalization corrects for signal loss due to lengthy input cables, ensuring signal integrity for up to 50 feet of Extron HDMI Pro Series cable at 1080p/60 with 8-bit color, or up to 25 feet with 12-bit color. The SW HDMI Series automatically adjust color bit depth based on the display EDID, preventing color compatibility conflicts between source and display. Front panel LED indicators provide immediate visual confirmation of HDCP authentication and signal presence for each input and output. The SW HDMI Series also provides +5 VDC, 250 mA on the HDMI output for powering peripheral devices such as an HDMI 101 Plus cable equalizer.

Convenient control options, including front panel, RS-232, IR, contact closure with tally, and auto-input switching, allow for easy integration into a variety of environments. All SW HDMI Series switchers are housed in rack-mountable 1U enclosures.

FEATURES

▶ **EDID Minder® automatically manages EDID communication between connected devices** – EDID Minder ensures that all sources power up properly and reliably output content for display.

▶ **Supports computer-video to 1920x1200, including HDTV 1080p/60 and 2K**

▶ **Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, Lip Sync, and HD lossless audio formats**

▶ **HDCP compliant**

▶ **HDCP authentication and signal presence LED indicators**

▶ **Automatic color bit depth management** – The switcher automatically adjusts color bit depth based on the display EDID, preventing color compatibility conflicts between source and display.

▶ **Automatic input cable equalization to 50 feet at 1080p/60 with 8-bit color when used with Extron HDMI Pro Series cable** – Actively conditions incoming HDMI signals to compensate for signal loss when using long cables, low quality cables, or source devices with poor HDMI signal output.

▶ **Provides +5 VDC, 250 mA power on the output for external peripheral devices**

▶ **Multiple control options including front panel, RS-232, IR, contact closure, and auto-input switching**

▶ **Contact closure remote control with tally output** – Allows for remote selection of an input channel. +5 VDC is provided to light an LED to indicate the currently selected input.

▶ **Rack-mountable 1U metal enclosure** – SW HDMI two and four input models feature a half rack width enclosure. Six and eight input models feature a full rack width enclosure.

▶ **Worldwide power compatibility** – SW HDMI two and four input models come standard with an energy-efficient external universal power supply, replacement part # 70-775-01. Six and eight input models come equipped with 100-240 VAC, 50/60 Hz, internal universal power supply.

APPLICATION DRAWING

Extron
SW4 HDMI
Switcher

RS-232

TouchLink
Control System

TCP/IP

HDMI Cables

HDMI Cables

HDMI Cable

Blu-ray Player

PC

Laptop

DSS Receiver

Flat Panel Display with Integrated Speakers
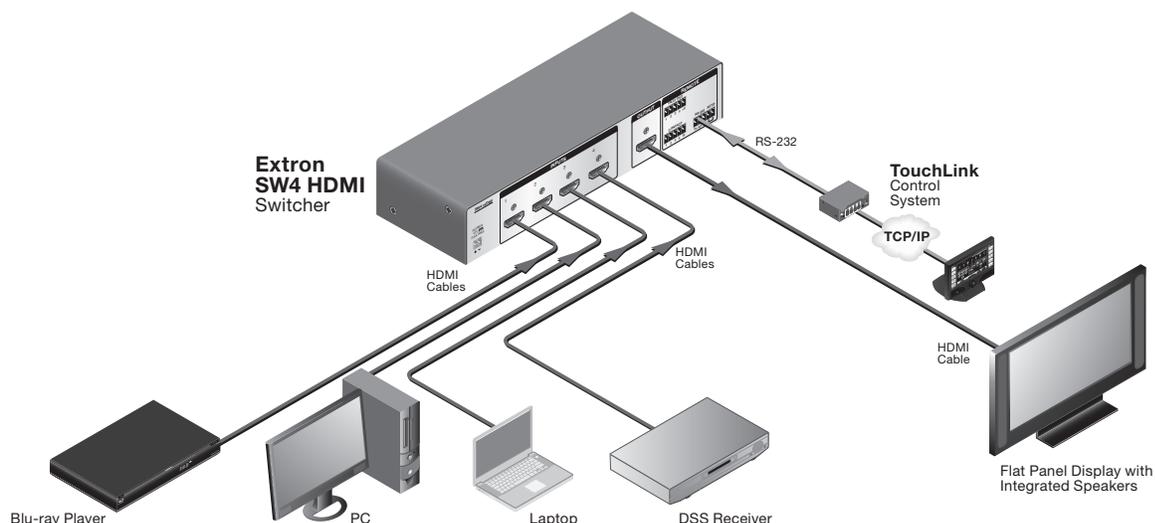
SPECIFICATIONS

NOTE: *Appropriate HDMI to DVI-D cables or adapters are required for DVI signal input/output.

VIDEO

Maximum data rate	6.75 Gbps (2.25 Gbps per color)
Maximum pixel clock	165 MHz
Resolution	Up to 1920 x 1200 or 1080p @ 60 Hz, 12-bit color
Formats	RGB and YCbCr digital video
Standards	DVI 1.0, HDMI, HDCP

VIDEO INPUT

Number/signal type	2, 4, 6, or 8 (depending on model) single link HDMI (or DVI-D*)
Connectors	2, 4, 6, or 8 female HDMI type A

VIDEO OUTPUT

Number/signal type	1 single link HDMI (or DVI-D*)
Connectors	1 female HDMI type A

CONTROL/REMOTE — SWITCHER

Serial control port	(1) RS-232, 3.5 mm captive screw connector, 5 pole (shared with auto-input switching control)
Pin configuration	1 = Tx, 2 = Rx, 3 = GND
Baud rate and protocol	9600 baud, 8 data bits, 1 stop bit, no parity
Auto-input switching	(1) 3.5 mm captive screw connector, 5 pole (shared with RS-232)
Pin configuration	Pins 4 and 5 of captive screw connector shared with RS-232 shorted together enable auto-input switching.
Contact closure	1 or 2 (depending on model) 3.5 mm captive screw, 5 pole
Tally output	1 or 2 (depending on model) 3.5 mm captive screw, 5 pole
IR controller module	IR 102 remote control (optional) 30' maximum, 40 degrees off axis
Program control	Extron Simple Instruction Set (SIS™)

GENERAL

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Power supply	
SW2 HDMI, SW4 HDMI	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts
SW6 HDMI, SW8 HDMI	Internal Input: 100-240 VAC, 50-60 Hz
Power consumption	
SW2 HDMI, SW4 HDMI	
Device	4.5 watts, 12 VDC
Device and power supply	5.2 watts, 12 VDC
SW6 HDMI, SW8 HDMI	8.0 watts
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	Convection, no vents
Thermal dissipation	
SW2 HDMI, SW4 HDMI	
Device	9.5 BTU/hr
Device and power supply	12.1 BTU/hr
SW6 HDMI, SW8 HDMI	17.0 BTU/hr
Mounting	
SW2 HDMI, SW4 HDMI	
Rack mount	Yes, with optional 1U rack shelf
Furniture mount	Yes, with optional under-desk mounting kit or through-desk mounting kit
SW6 HDMI, SW8 HDMI	
Rack mount	Yes, with supplied mounting brackets
Enclosure type	Metal

Enclosure dimensions	
SW2 HDMI, SW4 HDMI	1.75" H x 8.75" W x 3.0" D (1U high, half rack wide) (4.4 cm H x 22.2 cm W x 7.6 cm D) (Depth excludes connectors.)
SW6 HDMI, SW8 HDMI	1.75" H x 17.5" W x 12.0" D (1U high, full rack wide) (4.4 cm H x 44.4 cm W x 30.5 cm D) (Depth excludes connectors.)
Product weight	
SW2 HDMI, SW4 HDMI	0.5 lb (0.3 kg)
SW6 HDMI, SW8 HDMI	2.5 lbs (1.1 kg)
Shipping weight	
SW2 HDMI, SW4 HDMI	2 lbs (1 kg)
SW6 HDMI, SW8 HDMI	5 lbs (3 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
Environmental	Complies with appropriate requirements of RoHs and WEEE.
Warranty	3 years parts and labor

NOTE: All nominal levels are at ±10%.

Model	Version Description	Part number
SW2 HDMI	Two Input HDMI Switcher w/ EDID Minder	60-841-21
SW4 HDMI	Four Input HDMI Switcher w/ EDID Minder	60-841-22
SW6 HDMI	Six Input HDMI Switcher w/ EDID Minder	60-841-03
SW8 HDMI	Eight Input HDMI Switcher w/ EDID Minder	60-841-04

Optional Accessories

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HDMI Micro Series	MicroDigital™ Ultra-Flexible HDMI Cables	26-667-xx
HDMI Ultra Series	Ultra Flexible High Speed HDMI Cables	26-663-xx
HDMI Pro Series	High Speed and Standard Speed HDMI Cables	26-650-xx
DTP HDMI 230 Tx	HDMI Twisted Pair Transmitter	60-1271-12
DTP HDMI 230 Rx	HDMI Twisted Pair Receiver	60-1271-13
DTP HDMI 230 D Tx	HDMI Twisted Pair Transmitter - Decora® Wallplate	60-1215-1x
DTP HDMI 230 D Rx	HDMI Twisted Pair Receiver - Decora® Wallplate	60-1215-2x
DTP HDMI 330 Tx	Long Distance HDMI Twisted Pair Extender	60-1331-12
DTP HDMI 330 Rx	Long Distance HDMI Twisted Pair Extender	60-1331-13

PANEL DRAWINGS
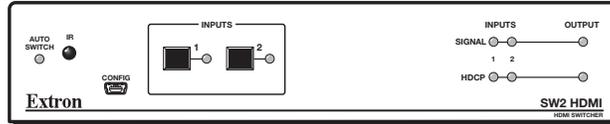
SW2 HDMI - Front

SW2 HDMI - Back
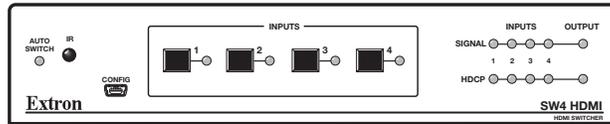
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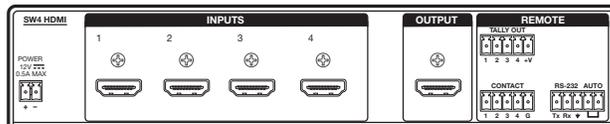
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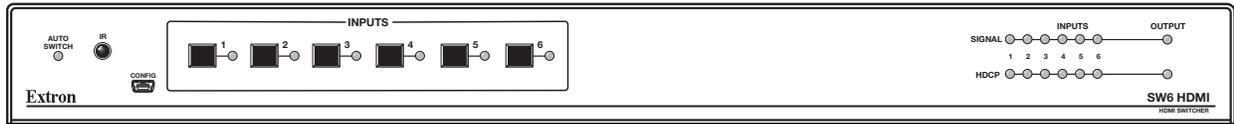
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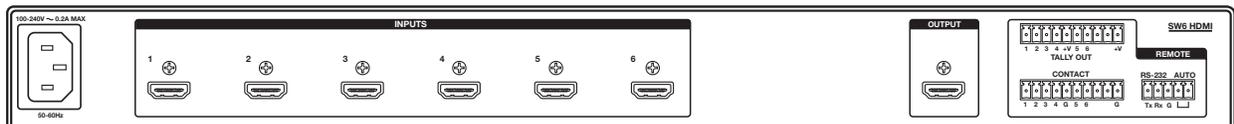
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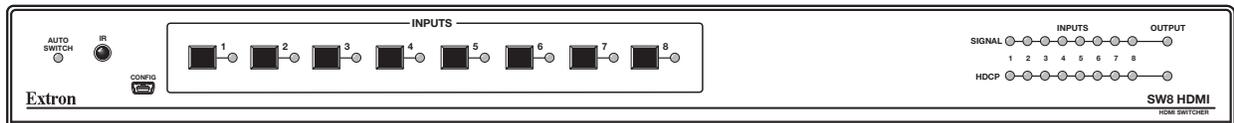
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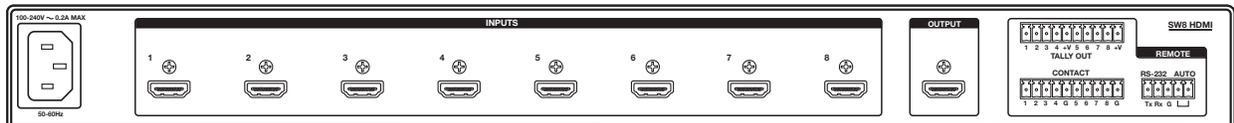
SW8 HDMI - Back

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