HDMI DA Series

HDMI DISTRIBUTION AMPLIFIERS

- Distributes HDMI video and embedded multi-channel digital audio signals
- EDID Minder[®] automatically manages EDID communication between connected devices
- ▶ Key Minder[®] continuously verifies HDCP compliance
- ▶ HDCP compliant
- Supports computer-video to 1920x1200, including HDTV 1080p/60 and 2K
- Provides +5 VDC, 250 mA power on each output for external peripheral devices
- Output muting via RS-232



The Extron HDMI DA Series are two, four, and six output HDMI distribution amplifiers. They feature EDID Minder[®] and Key Minder[®], two Extronexclusive technologies that automatically manage EDID communication and HDCP negotiation for reliable operation in commercial AV applications. The HDMI DA Series is ideal for applications that require the distribution of an HDMI source signal to multiple displays.



DESCRIPTION

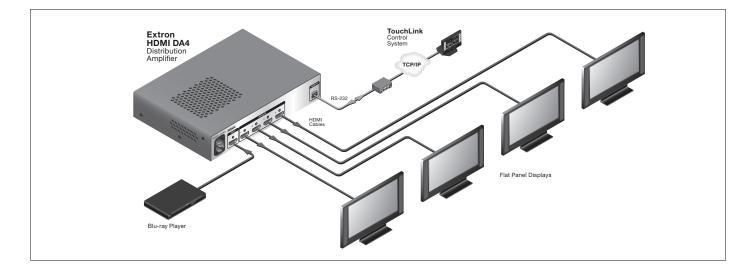
The Extron **HDMI DA Series** of distribution amplifiers reliably distributes one HDMI source signal to two, four, or six displays. The HDMI DA Series supports HDMI specification features including data rates up to 6.75 Gbps, 12-bit Deep Color, 3D, Lip Sync, and HD lossless audio formats. The HDCP-compliant distribution amplifiers support HDTV 1080p/60, 2K, and PC resolutions up to 1920x1200. The HDMI DA Series features two Extron-exclusive technologies: EDID Minder, which maintains continuous EDID communication between connected devices, and Key Minder, which continuously authenticates HDCP encryption between all devices, ensuring the simultaneous distribution of source content to all displays. The HDMI DA Series is ideal for applications that require the distribution of an HDMI source signal to multiple displays.

To enhance and simplify integration, the HDMI DA Series offers integrator-friendly features including automatic input cable equalization, automatic color bit depth management, selectable output muting, indicators for monitoring and troubleshooting, as well as peripheral device power on each output. The DAs provide automatic input cable equalization up to 50 feet at 1080p/60 with 8-bit color on Extron HDMI Ultra or HDMI Pro Series cables. Input cable equalization restores and reshapes incoming HDMI signals, reducing the need for additional signal conditioning equipment by compensating for weak source signals or signal loss from a long input cable. The HDMI DA Series automatically adjusts color bit depth based on the display EDID, preventing color compatibility conflicts between source and display. Outputs can be muted independently via RS-232, allowing content to be previewed on a local monitor. The distribution amplifiers provide immediate visual confirmation for each port via front panel LED indicators. The HDMI DA Series also provides +5 VDC, 250 mA on each output for powering peripheral devices such as an HDMI 101 Plus cable equalizer.

The HDMI DA2 is housed in a 1-inch (2.5 cm) high, quarter rack width metal enclosure that can be mounted in a rack or discreetly installed beneath a desk or behind a display. It includes an external, universal power supply for worldwide power compatibility. The HDMI DA4 and HDMI DA6 are housed in rack-mountable 1U high, half rack width metal enclosures, and are equipped with internal universal power supplies.

FEATURES

- EDID Minder automatically manages EDID communication between connected devices – EDID Minder ensures that the source powers up properly and reliably outputs content for display.
- Key Minder continuously verifies HDCP compliance Key Minder authenticates and maintains continuous HDCP encryption between all input and output devices to enable simultaneous distribution of a single source signal to two or more displays.
- HDCP compliant
- 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
- Automatic input cable equalization to 50 feet at 1080p/60 with 8-bit color when used with Extron HDMI Pro Series cable
- Automatic color bit depth management The HDMI DA Series automatically adjusts color bit depth based on the display EDID, preventing color compatibility conflicts between source and displays.
- HDMI to DVI Interface Format Correction Automatically reformats HDMI source signals for output to a connected DVI display.
- Output muting via RS-232 Provides the capability to mute one or all outputs at any time. This allows content to be viewed on a local monitor prior to appearing on the main presentation display.
- EDID status, HDCP authentication, and signal presence LED indicators
- Provides +5 VDC, 250 mA power on each output for external peripheral devices
- Rack-mountable, metal enclosure HDMI two output model features a 1" (2.5 cm) high, quarter rack width enclosure. Four and six output models feature a 1U high, half rack width enclosure.
- Includes LockIt[®] HDMI cable lacing brackets
- Worldwide power compatibility HDMI DA Series two output model comes standard with an energy-efficient external universal power supply, replacement part # 70-775-01. Four and six output models come with 100-240 VAC, 50/60 Hz, internal universal power supply.

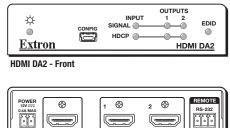


SPECIFICATIONS

NOTE: *Appropriate DVI-D to HDMI cables of	or adapters are required for DVI signal input/output.				
VIDEO					
Maximum data rate Maximum pixel clock Resolution range Formats Standards	6.75 Gbps (2.25 Gbps per color) 165 MHz Up to 1920x1200 or 1080p @ 60 Hz, 12-bit color RGB and YCbCr digital video DVI 1.0, HDMI, HDCP				
VIDEO INPUT					
Number/signal type Connectors	1 single link HDMI (or DVI-D*) 1 female 19-pin HDMI type A				
VIDEO OUTPUT					
Number/signal type HDMI DA2 HDMI DA4 HDMI DA6 Connectors	2 single link HDMI (or DVI-D*) 4 single link HDMI (or DVI-D*) 6 single link HDMI (or DVI-D*)				
HDMI DA2 HDMI DA4 HDMI DA6	2 female 19-pin HDMI type A 4 female 19-pin HDMI type A 6 female 19-pin HDMI type A				
CONTROL/REMOTE					
Serial control port Baud rate and protocol Serial control pin configuration USB control port USB standards Program control	RS-232, 3.5 mm, 3-pole captive screw connector 9600 baud, 8 data bits, 1 stop bit, non-parity 1 = Tx, 2 = Rx, 3 = GND 1 front panel, female, mini USB B USB 2.0, low speed Extron Simple Instruction Set (SIS™)				
GENERAL					
Power HDMI DA2	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts				
HDMI DA4 and HDMI DA6	Internal Input: 100-240 VAC, 50-60 Hz				
Power consumption HDMI DA2 Device Device and power supply HDMI DA4 and HDMI DA6	4 watts 5.3 watts 7.7 watts				

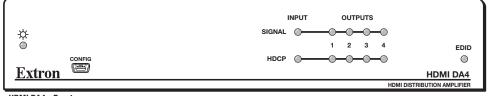
Temperature/hur	nidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing			
Cooling		Convection, vents on top			
Thermal dissipat	ion				
HDMI DA2					
Device		13.1 BTU/hr			
Device and power	sunnly	17.5 BTU/hr			
HDMI DA4 and HE		18.2 BTU/hr			
Mounting		10.2 010/11			
Rack mount		Yes, with optional rack shelf kit			
		Metal			
Enclosure type Enclosure dimen	-1	Metal			
HDMI DA2		1.0" H x 4.3" W x 3.0" D (one quarter rack wide) 2.5 cm H x 10.9 cm W x 7.6 cm D (Depth excludes connectors) 1.75" H x 8.75" W x 6.0" D (half rack wide)			
		4.4 cm H x 22.2 cm W x 15.2 cm D (Depth excludes			
		connectors)			
Product weight		0.05 # (0.04.)			
HDMI DA2		0.35 lbs (0.2 kg)			
HDMI DA4 and HD		1.6 lbs (0.7 kg)			
Shipping weight					
HDMI DA2		2 lbs (1 kg)			
HDMI DA4 and HD	DMI DA6	3 lbs (2 kg)			
Vibration		ISTA 1A in carton (International Safe Transit Association)			
Regulatory comp	liance				
Safety		CE, c-UL, UL			
EMI/EMC		CE, C-tick, FCC Class A, ICES, VCCI			
Environmental		Complies with the appropriate requirements of RoHS,			
		WEEE.			
Warranty	al levels are at ±10%.	3 years parts and labor			
NUTE. AII HUIHII	idi levels di e di ±10%.				
Model	Version Description	Part number			
HDMI DA2 HDMI DA4 HDMI DA6	Two Output HDMI Four Output HDMI Six Output HDMI	60-997-01 60-998-01 60-999-01			
	·				

PANEL DRAWINGS



+ - INPUT OUTPUTS

HDMI DA2 - Back

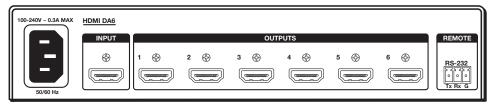


HDMI DA4 - Front

100-240V ~ 0.3A MAX	HDMI DA4					
	INPUT	OUTPUTS			REMOT	
100-240V - 0.3A MAX	ج ا		2		4	RS-232
IDMI DA4 - Back						

INPUT OUTPUTS ☆ ○ SIGNAL -0--0-0 -0--0-0 2 3 4 3 1 4 EDID HDCP \odot \odot \bigcirc Extron HDMI DA6

HDMI DA6 - Front



HDMI DA6 - Back

Worldwide Sales Offices —

Anaheim • Raleigh • Silicon Valley • Dallas • New York • Washington, DC • Toronto • Mexico City • Paris • London • Frankfurt Amersfoort • Moscow • Dubai • Johannesburg • New Delhi • Bangalore • Singapore • Seoul • Shanghai • Beijing • Tokyo

UNITED STATES

+800.633.9876 Inside USA/Canada +1.714.491.1500 EUROPE +800.3987.6673 Inside Europe

+31.33.453.4040

ASIA +800.7339.8766 Inside Asia +65.6383.4400 HDMI DIST

BUTION AMPLIFIEI

MIDDLE EAST +971.4.299.1800