

MAX-HDMI816A-G

8 × 8 HDMI Deep Color & Full HD 3D over Single CAT-5



The ABtUS **MAX-HDMI816A-G** 8x8 HDMI Deep Color & full 3D over single CAT-5 matrix with bi-directional IR provides the most flexible and cost effective solution in the market thru route high definition video sources plus multi-channel (up to 7.1-channel) digital audio from any of the four HDMI sources to the remove displays at the same time. Throughly only one low cost CAT-5 cable, not only high quality video and audio can be transmitted to the display, users can also switch among four HDMI sources using the push-in button or remote control. Furthermore, the built-in IR extension function allows users to select the source from the display.

Features

- Support HDMI Deep Color & full 3D
- HDCP compliant
- Allows any source to be displayed on multiple display at the same time
- Allows any HDMI display to view any HDMI source at any time
- Supports 7.1 channel digital audio
- Supports default HDMI EDID and learns the EDID of displays
- Bi-directional IR path
- Supports IR, RS-232 and ethernet control
- Extends video signal up to 35m (115 feet) over single CAT-5 at 1080p
- Easy installation with rack-mounting and wall-mounting designs for transmitter and receiver respectively
- fast response time - 2~5 seconds for channel switch

Technical specification

	MAX-HDMI816A-G	CAT-HDMI11RA-G
Role of usage:	True 8 × 8 matrix switcher transmitter	Receiver
Input:	8 × HDMI 1 × RS-232 9 × IR socket for IR receiver	1 × RJ-45 1 × IR socket for IR receiver
Output:	8 × RJ-45 4 × HDMI 9 × IR socket for IR blaster	1 × HDMI 1 × IR socket for IR blaster
HDMI input selection:	Push-in button / IR remote control RS-232 control	IR remote control
HDMI source control:	Controllable via IR pass-through from IR receiver at RX to IR blaster at TX	
IR remote control:	Electro-optical characteristics: τ = 25° / Carrier frequency: 20~60kHz	
HDMI connector:	Type A (19-pin female)	
RJ-45 connector:	WE/SS 8P8C with 2 LED indicators	
RS-232 connector:	DE-9 [9-pin D-sub female]	
3.5mm connector:	3.5mm jack for IR blaster	3.5mm jack for IR blaster
HDMI compliance:	HDMI Deep Color & Full 3D	
HDCP compliance:	Yes	
Video bandwidth:	Single-link 225MHz [6.75Gbps]	
Video support:	480i / 480p / 720p / 1080i / 1080p60 36 bit-color	
Audio support:	Surround sound (up to 7.1 channel) or stereo digital audio	
HDMI over CAT-5 transmission range:	Full HD (1080p): 35m (115ft) CAT-5 HD (720p/1080i): 50m (165ft) CAT-5	
HDMI equalization:	N/A	8-level digital rotary control
Input TMDS signal:	1.2 Volts [peak-to-peak]	
Input DDC signal:	5 Volts [peak-to-peak, TTL]	
ESD protection:	[1] Human body model — ±19kV [air-gap discharge] & ±12kV [contact discharge] [2] Core chipset — ±8kV	
PCB stack-up:	4-layer board [impedance control — 100Ω; single 50Ω]	
Power supply:	12V 5A DC	5V 2A DC
Power consumption:	20 Watts [max]	1 Watt [max]
Operation temperature:	0~40°C [32~104°F]	
Storage temperature:	-20~60°C [-4~140°F]	
Relative humidity:	20~90% RH [no condensation]	
Fixedness:	1RU rack-mount with ears wall hanging holes	Wall-mount with screws
Dimension (L x W x H):	440 × 142 × 42 mm	75 × 91 × 24 mm
Weight:	1.8 kg	239 g

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Typical applications

Any Projection or display system that required broadcasting of multiple HDMI outputs to multiple displays:
 • Schools (Lab, Hall etc) • Churches • Corporate Applications (Function Room) • Rental • Exhibition • Show room

Diagram

