

» CATS-HDMI-MX8

HDMI Over Extended CAT5

HDMI A/V Distribution Up to Eight Displays

Whether in residential or industrial applications the Pragmatic CATS™-HDMI extender package delivers exceptional audio and video quality over ultra long distances via standard Cat5e/Cat6 cables. CATS is easy to use, allows components to be centralized and operations are seamless.

The CATS-HDMI-MX8 8x8 HDMI over Cat5 Matrix with IR Pass-through provides the most flexible and cost effective solution in the market to route high definition video sources plus multi-channel (up to 7.1-channel) digital audio from any four HDMI sources to four remote displays at the same time.

Through low cost Cat-5/5e/6 LAN cables, not only can high quality video and audio be transmitted to the display sites, users can also switch among eight HDMI sources using the push-in button or remote control. With single power design at the source site, each remote module is easily installed without a power supply. Furthermore, the built-in IR extension function allows users to access the DVD player, PS3 or any HDMI supported devices directly.

Cost Efficient

The CATS HDMI system is a cost-efficient, CAT5-based extension system able to transmit audio and video up to 115ft from one source to four screens.

Ideal for a variety of applications

Extension enables strategic placement of screens in multiple locations. CATS HDMI is ideal for commercial and residential applications

Scalable

When your business grows, the CATS broadcast grows as well. The CATS systems can deliver up to 16 screens

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE



Applications:

- Commercial buildings
- Digital signage
- Offices
- Stadiums
- Healthcare

Feature & Benefits:

- Extends video signal up to 35m (115 feet) over CAT5e at 1080p
- Supports up to 7.1 channel digital audio
- The matrix master can switch every output channels to any HDMI inputs by push-in button, IR remote control, or RS-232 control
- Control local HDMI sources such as DVD and TiVo by attached IR extender from



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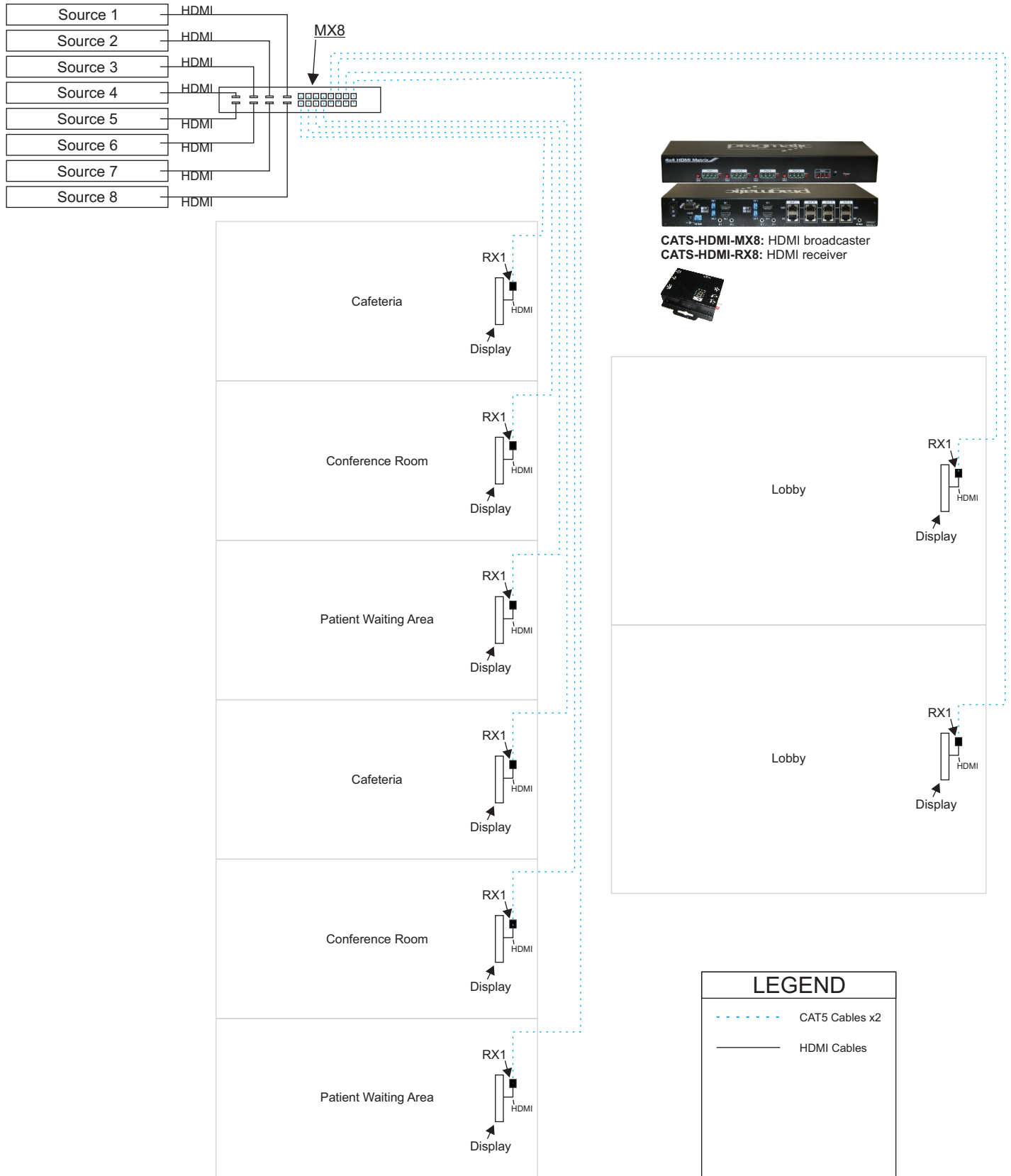
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MODEL		CATS-HDMI-MX8	
Technical		CATS-HDMI-MX8	CATS-HDMI-RX8
Role of Usage		8x8 true matrix, Transmitter [TX]	Receiver (RX)
HDMI Compliance		[CATS-HDMI-MX8C v1.2] – HDMI 1.2a	[CATS-HDMI-MX8C v1.3] – HDMI 1.3c
HDMI Compliance		Yes	
Video Bandwidth		[CATS-HDMI-MX8 v1.2] – Single-link 165MHz [4.95Gbps], [CATS-HDMI-MX8 v1.3] – Single-link 225MHz [6.75Gbps]	
Video Support		480i / 480p / 720p / 1080i / 1080p60	
Audio Support		Surround sound (up to 7.1ch) or stereo digital audio	
HDMI over CAT5 Transmission Range		Full HD (1080p) – 35m (115ft) [CAT5e] / 40m (130ft) [CAT6] HD (720p/1080i) – 50m (165ft) [CAT5e] / 55m (180ft) [CAT6]	
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 — ±15kV [air-gap discharge] & ±8kV [contact discharge] [2] Core chipset — ±8kV	
PCB Stack-up		4-layer board [impedance control — differential 100 -Ohm single 50 -Ohm]	
Input		8x HDMI, 1x RS-232	1x RJ-45 [HDMI signal], 1 x RJ-45 [Channel control], 1 x IR socket for IR receiver
Output		8x RJ-45 [HDMI signal], 8x RJ-45 [Channel control] 9x IR socket for IR blaster	1 x HDMI
HDMI Input Selection		Push-in button / IR remote control / RS-232	Push-in button / 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: = 25 / Carrier frequency: 38kHz	
HDMI connector		Type A [19-pin female]	
RJ-45 connector		WE/SS 8P8C with 2 LED indicators [TMDS & DDC channels]	
RS-232 connector		DE-9 [9-pin D-sub female]	
USB Connector³		Standard type-B [square shape]	
3.5mm connector		Earphone jack for IR blaster [IR Main] IR control on all source devices [IR1~IR4] IR control on individual source device	Earphone jack for IR receiver [IR] Receives IR commands from remote control
DIP switch [CATS-HDMI-MX4 only]		[SW1~SW8] 2-pin for EDID & audio mode [SW Main] 4-pin for operation & firmware update	
Enclosure		Metal	
Dimensions (L x W x H)	Model	440 x 290 x 44mm [1'5" x 11.4" x 1.7"]	85 x 90 x 25mm [3.3" x 3.5" x 1"]
	Package	528 x 398 x 130mm [1'9" x 1'4" x 5.1"]	90 x 85 x 25mm [3.5" x 3.3" x 1"]
	Carton	585*242*565mm	
Weight	Model	3250g [7.2 lbs]	180g [6.3oz]
	Package	7.1 kg [15.6 lbs]	
Mounting Options		1U rack-mount with ears Wall hanging holes	Wall mount
Power Supply		AC Power 100-240V	Not necessarily required1
Power consumption		60 Watts [max]	1.5 Watt [max] (provided by MA-5188)
Operation Temperature		0~40 C [32~104 F]	
Storage Temperature		-20~60 C [-4~140 F]	
Relative humidity		☼	
Package Contents		1x CATS-HDMI-MX8, 1x IR blaster2, 2x 1U rack mounting-ear, 1x IR remote control2, 1x User Manual, 8x CATS-HDMI-RX8, 8x IR receiver, 16x Wall-mounting screws, 1x UL AC power cord	

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Application Diagram



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