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MX-8HDMI-CATX

8 x 8 HDMI Matrix Switch Over CATx with Loopback

c-linx series

Features

- Extends and Switches Uncompressed HDMI Over CATx/HDBaseT, up to 60m at Full HD 1080p (48-bit)

- Supports 3D Video

- Supports PoC (Power over CATX) Which Powers Remote Receivers

- Supports HDCP, Default EDID and Learns EDID of Connected Displays

- Supports 7.1ch Surround Sound, Stereo Digital Audio

- Switch Any HDMI Input to Any Output Using Local Front Panel Push Buttons or for Remote Control: IR, RS-232, Ethernet and Web Interface

- Completely Non-Blocking Matrix Allowing any Source to be Connected to any Display

- Compatible with MX-CATX-RCV Receivers for Remote Extension

Applications

- Digital Signage

- Video Walls

- Conference Rooms
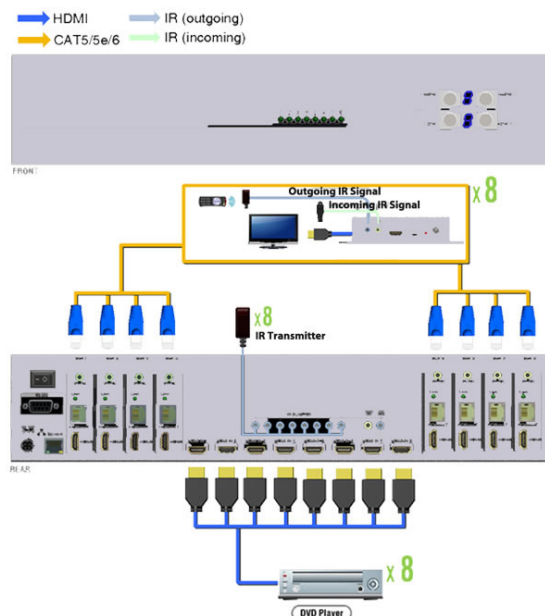
- Houses of Worship

- Auditoriums

- Home Theaters

8x8 HDMI Matrix Switcher with HDBaseT and HDMI Outputs

The MX-8HDMI-CATX Matrix Switch is one of the most flexible and cost effective solutions in the market for distributing uncompressed 1080P HD video with 7.1 surround sound audio from up to 8 HDMI sources to 8 remote displays. Using a single CATx cable from each of the 8 outputs, uncompressed HDMI video/audio can be extended up to 60 meters away from the sources. In addition, the MX-8HDMI-CATX provides an HDMI connection on each output allowing local loopback for monitoring and distribution.

The built in IR extension of the MX-8HDMI-CATX allows remote access from displays to sources up to 60 meters away. Sources such as Blu-Ray and DVD players, as well as satellite and cable set top boxes can easily be controlled remotely through IR. The MX-8HDMI-CATX has the added benefit of PoC (Power over CATX) which powers the receiver over a single CATX cable. The PoC feature helps to make a clean installation by eliminating the need for additional "wal-wart" power supplies that clutter up power strips.

Multiple options are available for controlling the MX-8HDMI-CATX: front panel push button controls, IR, serial RS-232 and Ethernet. The RS-232 offers a convenient method of control for installations that require 3rd party control systems.
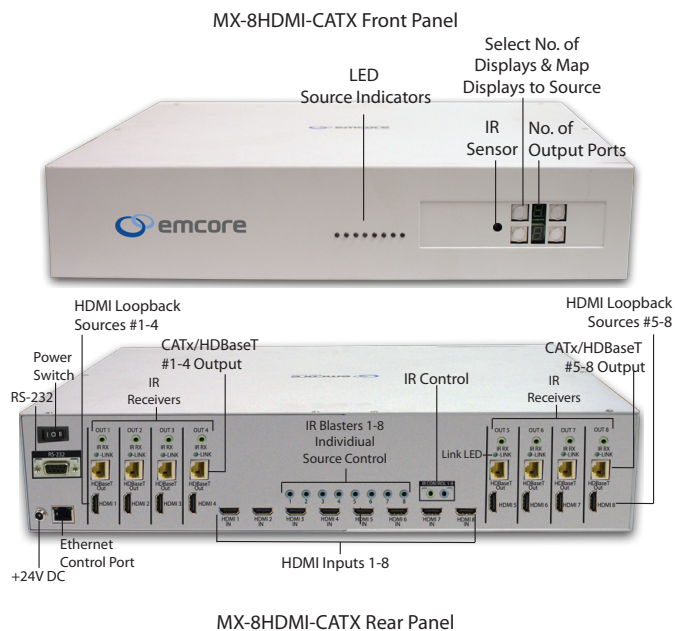
Application Diagram

MX-8HDMI-CATX
8 x 8 HDMI Matrix Switch Over CATx with Loopback

Models

Model	Description
MX-8HDMI-CATX	8x8 HDMI Matrix Switch, Bi-Directional IR, Power over CATx (POC) w/8 HDMI and 60 meter CATx HDBaseT Outputs
MX-CATX-RCV	HDMI Receiver for HDBaseT with Bi-Directional IR and POC, Power Supply Included

Connection Diagram

MX-8HDMI-CATX Front Panel

Select No. of Displays & Map Displays to Source

LED Source Indicators

IR Sensor

No. of Output Ports

HDMI Loopback Sources #1-4

CATx/HDBaseT #1-4 Output

HDMI Loopback Sources #5-8

CATx/HDBaseT #5-8 Output

Power Switch

RS-232

IR Receivers

IR Control

IR Receivers

IR Blasters 1-8 Individiual Source Control

Link LED

Ethernet Control Port

+24V DC

HDMI Inputs 1-8

MX-8HDMI-CATX Rear Panel

Video

Specifications	Values
Inputs	8x HDMI
Outputs	8x HDMI (loopout), 8x RJ-45 (HDBaseT)
HDMI connector	Type A [19-pin female]
HDMI and HDCP Compliance	HDMI 1.3 and HDCP 1.1
Video bandwidth	340 MHz [10.2 Gbps]
Video support	480i, 480p, 720p, 1080i, 1080p/60 Hz

Audio

Specifications	Values
Embedded with HDMI	Surround sound [up to 7.1ch] or stereo digital audio with auto equalization

Control

Specifications	Values
HDMI Input Select	Push Button, 1x IR Receiver, 1x RS-232, 1x RJ-45 (IP)
HDMI Source Control	IR pass-through from 1x IR Receiver at RX to 9x IR Blaster at TX
RS-232 Connector	DB-9 [9-pin D-sub female]
RJ-45 Connector	WE/SS 8P8C
Web-Interface	Software Control

General

Specifications	Values
Input Power	24 V DC
Power Consumption	120 W max
Weight	11 oz [320 g]
Dimensions	438 x 319 x 100 mm [3.9" x 3.5" x 1 "]
Operating Temperature	0~40°C [32~104°F]
Storage Temperature	-20~60°C [-4~140°F]
Relative Humidity	20~90%
Warranty	1 Year