MX-4HDMI-CATX

4X4 HDMI OVER CATx/HDBaseT CROSS-POINT MATRIX SWITCHER WITH LOOPBACK

opticomm **emcore** empower with light

c-linx series **HDBT™**

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 HDMI Receivers for Remote Extension and any other EMCORE HDBT Receivers with the Same Functionality

Applications

- Digital Signage

- Video Walls

- Conference Rooms
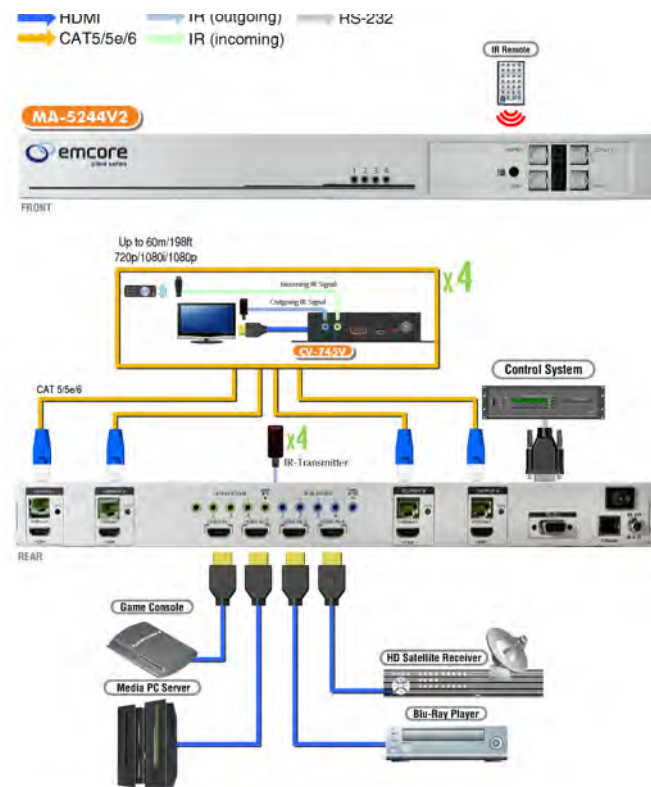
- Houses of Worship

- Auditoriums

- Home Theaters

4x4 HDMI Matrix Switcher with HDBaseT and HDMI Outputs

The MX-4HDMI-CATX Cross-Point Matrix Switcher 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 4 HDMI sources to 4 remote displays. Using a single CATx cable from each of the 4 outputs, uncompressed HDMI video/audio can be extended up to 60 meters away from the sources. In addition, the MX-4HDMI-CATX provides an HDMI connection on each output allowing local loopback for monitoring and distribution.

The built in IR extension of the MX-4HDMI-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-4HDMI-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-4HDMI-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-4HDMI-CATX

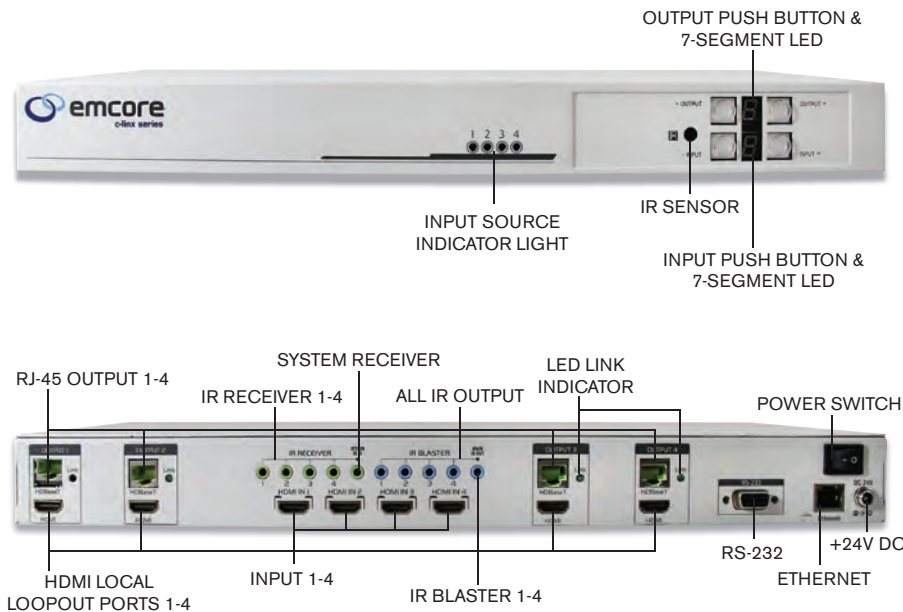4x4 HDMI over CATx/HDBaseT Cross-Point
Matrix Switcher with Loopback

Models

Model	Description
MX-4HDMI-CATX	4X4 HDMI Matrix Switch, Bi-Directional IR, Power over CATx (POC) w/4 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

OUTPUT PUSH BUTTON &
7-SEGMENT LED

INPUT SOURCE
INDICATOR LIGHT

IR SENSOR

INPUT PUSH BUTTON &
7-SEGMENT LED

RJ-45 OUTPUT 1-4

SYSTEM RECEIVER

IR RECEIVER 1-4

ALL IR OUTPUT

LED LINK
INDICATOR

POWER SWITCH

HDMI LOCAL
LOOPOUT PORTS 1-4

INPUT 1-4

IR BLASTER 1-4

RS-232

ETHERNET

+24V DC

Video

Specifications	Values
Inputs	4x HDMI
Outputs	4x HDMI (loopout), 4x RJ-45 (HDBaseT)
HDMI Connector	Type A [19-pin female]
HDMI and HDCP Compliance	HDMI 1.3 and HDCP 1.1
Video Bandwidth	Single-link 225MHz [6.75Gbps]
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	63.5 oz [1800g]
Dimensions	440 x 160 x 41 mm [1'4"" x 6.3" x 1.6 "]
Operating Temperature	0~40°C [32~104°F]
Storage Temperature	-20~60°C [-4~140°F]
Relative Humidity	20~90% RH [no condensation]
Warranty	1 Year

Compliance

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