



HDMI 2.0 4X4 Seamless Matrix with Video Wall & Multiview

500428



Overview

The HDMI 2.0 4X4 Seamless Matrix with VW & MV (model: 500428) allows up to four (4) different HDMI sources to be connected and/or distributed to up to four (4) HDMI displays. The unit supports Matrix, Video Wall and Multiview configuration with multiple display modes. Each sources can be individually scaled and seamless switching ensures a smooth picture transition without frame loss. The unit may be managed via front panel pushbuttons, IR Remote, RS232 and webserver interface.

Applications

- Commercial and residential AV systems
- Classroom training systems
- Digital signage
- Boardroom systems
- Collaborative PC systems
- Medical information systems

Key Features

- Supports HDMI 2.0 (4K/60 4:4:4) & HDCP 2.2
- Supports 12 display categories in multiview mode and 9 splicing modes in Video Wall mode
- Output scaler supports multiple video resolution
- HDMI audio pass-through up to 7.1CH HD audio (LPCM, Dolby TrueHD and DTS-HD Master Audio)
- Analog audio insertion and extraction for input and output ports.
- Supports an IR matrix
- Powerful EDID management and CEC control are supported
- Built-in GUI web interface

Specification

Technical

HDMI Compliance	HDMI 2.0
HDCP Compliance	HDCP 2.2 and HDCP 1.x
Video Bandwidth	594Mhz/18Gbps
Video Resolution	Up to 4K/60Hz (4:4:4)
Video System	RGB 4:4:4, YCbCr 4:4:4/4:2:2/4:2:0
Color Depth	8-bit, 10-bit, 12-bit (1080p@60Hz) 8-bit (4K@60Hz YUV4:4:4) 8-bit, 10-bit, 12-bit (4K@60Hz YCbCr 4:2:2/4:2:0)
Infrared Frequency Range	Wideband 20KHz to 60KHz
HDMI Audio Formats	LPCM 2.0/2.1/5.1/6.1/7.1, Dolby Digital, Dolby TrueHD, Dolby Digital Plus(DD+), DTS-EX, DTS HD Master Audio
Optical Audio Formats	PCM 2.0, Dolby Digital / Plus, DTS 2.0/5.1
Analog Audio Formats	PCM 2.0
Vmax	2Vrms
SNR	>90dB
THD+N Ratio	<0.1% (V_max) 0.001%~0.01% (V_best)
Crosstalk	>80dB
Frequency Response	20Hz~20kHz ±0.5dB
ESD Protection	Human-body Model: ±8kV (Air-gap discharge), ±4kV (Contact discharge)

Connection

Matrix	Inputs: 4 x HDMI Type A [19-pin female] 4 x Stereo audio input [3.81mm, 3pin Phoenix Connector] Output: 4 x HDMI Type A [19-pin female] 4 x Optical audio output [S/PDIF] 4 x Stereo balanced audio output [3.81mm, 5pin Phoenix Connector] Controls: 4 x IR Input [3.5mm Stereo Mini-jack] 4 x IR Output [3.5mm Stereo Mini-jack] 1 x IR Extender [3.5mm Stereo Mini-jack] 1 x TCP/IP [RJ45] 1 x RS-232 [D-Sub 9]
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Mechanical

Housing	Metal Enclosure
Color	Black
Dimensions (WxDxH)	440mm x 203mm x 44.5mm
Weight	2.55Kg
Power Supply	100 - 240VAC 50/60Hz, Output: 12VDC/2.5A
Power Consumption	25W (Max)
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20 ~ 90% RH (non-condensing)

Generic Specification

Compliance	Regulatory: FCC, CE, RoHS
Warranty	2 years
Order Information	500428 HDMI 2.0 4X4 Seamless Matrix with VW & MW (UPC:627699004289)

Diagram

