



# HDMI 4X4 Matrix Switch Kit, HDBT, PoC, 4K/60

500412-V2



## Overview

The HDMI 4X4 Matrix Switch Kit, HDBT, PoC, 4K/60 (4:4:4) (model: 50041-V2) allows up to four (4) different HDMI sources to be connected and/or distributed to up to four (4) HDMI displays. The unit supports four (4) HDBT outputs for long distance connectivity and four (4) HDMI outputs for local connectivity. The Kit includes four (4) HDBT PoC Receivers which are powered by the Matrix Switch, and support distances up to 150m at 1080p and 120m at 4K via Cat5e/6/7 cable. The unit may be managed via front panel pushbuttons, IR, 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 2.0b (4K/60 4:4:4) & HDCP 2.2
- 4 HDBT outputs, support distances up to 150m at 1080p and 120m at 4K
- Kit includes 4 HDBT Receivers which are powered by the matrix switch via 24VDC PoC
- HDMI audio pass-through up to 7.1CH HD audio (LPCM, Dolby TrueHD and DTS-HD Master Audio)
- Supports 4K to 1080P Down Scaler for each output port
- Supports an IR matrix
- Powerful EDID management and CEC control are supported
- Built-in GUI web interface

# Specification

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2 and HDCP 1.x
Video Bandwidth	18Gbps
Video Resolution	Up to 4K2K@50/60Hz (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 (4K2K@60Hz YUV4:4:4) 8-bit, 10-bit, 12-bit (4K2K@60Hz YCbCr 4:2:2/4:2:0)
HDR	HDR10, HDR10+, Dolby Vision, HLG
HDMI Audio Formats	LPCM 2.0/2.1/5.1/6.1/7.1, Dolby Digital, Dolby TrueHD, Dolby Digital Plus(DD+), DTS-ES, DTS HD Master, DTS HD-HRA, DTS-X
Coax Audio Formats	PCM 2.0, Dolby Digital / Plus, DTS 2.0/5.1
Analog Balanced Audio Formats	PCM 2.0CH
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] Outputs: 4 x HDMI Type A [19-pin female] 4 x HDBaseT ports [RJ45] 4 x Coaxial audio [3.5mm Stereo Mini-jack] 4 x balanced analog audio [5-pin Phoenix connector] Controls: 5 x IR IN [3.5mm Stereo Mini-jack] 5 x IR OUT [3.5mm Stereo Mini-jack] 1 x TCP/IP [RJ45] 1 x RS-232 [D-Sub 9]
HDBaseT receiver	Inputs: 1 x HDBT IN [RJ45, 8-pin female] Outputs: 1 x HDMI Type A [19-pin female] 1 x AUDIO OUT [3.5mm Stereo Mini-jack] Controls: 1 x IR IN [3.5mm Stereo Mini-jack] 1 x IR OUT [3.5mm Stereo Mini-jack] 1 x RS-232 [3-pin Phoenix connector] 1 x SERVICE [Mini-USB, Update port]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions (WxDxH)	Matrix: 440mm x 200mm x 44.5mm Receiver: 140mm x 65mm x 18mm
Weight	Matrix: 3.1Kg, Receiver: 155g
Power Supply	AC 100 - 240V 50/60Hz
Power Consumption	60W (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	500412-V2 HDMI 4X4 Matrix Switch Kit HDBT, PoC, 4K/60 (UPC:627699034125)

# Diagram

