SC40.EMX44

SCION

4 x 4 HDMI Matrix over CAT6/6a/7
18G, HDMI 2.0, HDCP 2.2
4K/60Hz 4:4:4, HDR (HLG)

Key Features

- 4 x Inputs to 4 x Outputs
- 4 x HDMI Mirrored Outputs
- 18G, 4K/60Hz, 4:4:4
- HDMI 2.0b, HDCP 2.2
- Dolby Vision, HDR10, HDR-HLG
- LPCM, Dolby TrueHD and DTS-HD
- 4K → 1080p Down Scaler on each output
- Infra-Red control & Pass-Through
- PoC (Power over Cable)
- Control: RS232, TCP/IP, Web Interface

Description

The SC40.EMX44 matrix is packed with many features and delivers stunning Ultra HD video up to 70m over CAT6/6a/7 cable. Each HDMI source and accompanied IR signal can be routed to any display simultaneously. The CAT6 output has a mirrored HDMI output which can be used for recording or simply connecting an additional display for rooms where the source can be shared such as a bedroom with on-suite.

The receivers are (PoC) powered over the CAT6 cable so there's no need for additional power adaptors behind the screens. The receivers can be connected up to 70m from the matrix and still provide zero latency, 4K/60Hz images without requiring any adjustments. Each output supports scaling down from 4K → 1080p so projects can mix HD & UHD screens.

IR is provided for controlling the source devices from the remote locations. Each zone simply selects the required input using the IR remote control provided and then uses the third party remote control to control the source device. These IR signals are routed with the HDMI signal eliminating any possibility of controlling two devices at the same time.

The matrix also has local control using either IR, the front panel buttons, RS232 and web browser making it easy to link up with third party smart home controllers such as RTL, Crestron, Control4 and more. Our SC40.EMX44 matrix supports HDMI 2.0b HDCP 2.2, HDR10, 4K/60Hz, YUV 4:4:4 and comes with a 2 years manufactures warranty. The package includes 4 x receivers and all the IR transmit and receiver cables needed to complete your installation.

Specifications

MATRIX

Connections

HDMI Input: 4 x HDMI Type-A,19-Pin Female
HDMI Output: 4 x RJ45 Data Socket
Mirrored HDMI Output: 4 x HDMI Type-A,19-Pin Female
Infrared Output: 5 x 3.5mm Jack Socket
RS232 Control: 1 x DB9 Socket
Ethernet: 1 x RJ45 Data Socket
Power: DC Jack Socket

Signals

Signal Input: HDMI
Standards: HDMI 2.0b, HDCP 2.2, CEC
Bandwidth: 18Gbps
Video Resolutions: 4K/60Hz, 4:4:4
Colour Space: RGB/YCbCr 4:4:4, YCbCr 4:2:2, YUV 4:2:0, HDR, HDR 10+, DLD, Dolby Vision
Colour Depth: 8/10/12-bit
HDMI Audio: LPCM 7.1, Dolby True HD, Dolby Digital Plus (DD+), DTS-ES, DTS-HD Master, DTS HD-HRA, DTS-X
Infra-Red: Wide Bandwidth, Frequency 30KHz to 56KHz (940nm)

Power

Input: 12 Volt DC @ 2.5 Amp
Consumption: 20 Watts (Max)

Environment

Operating Temperature: 0° to 40°C
Storage Temperature: -20° to 60°C
Operating Humidity: 20 to 90% RH (no condensation)
Dimensions: (W) 320 x (D) 100 x (H) 36
Weight: 915g
Colour: Black
ESD: Human Body - +/-8kV, (air gap discharge) & +/-4kV (contact discharge)
Safety and Emissions: CE, FCC, RoHS

Specifications

Receiver

Connections

HDMI Input: 1 x RJ45 Data Socket
HDMI Output: 1 x HDMI Type-A,19-Pin Female
Infrared Input: 1 x 3.5mm Jack Socket
Power: 1 x DC Jack (not needed when connected to a matrix)
Firmware Upgrade: 1 x Micro USB

Signals

Signal Input: HDMI
Standards: HDMI 2.0b, HDCP 2.2, CEC
Bandwidth: 18Gbps
Video Resolutions: 4K/60Hz, 4:4:4
Colour Space: RGB/YCbCr 4:4:4, YCbCr 4:2:2, YUV 4:2:0, HDR, HDR 10+, DLD, Dolby Vision
Colour Depth: 8/10/12-bit
HDMI Audio: LPCM 7.1, Dolby True HD, Dolby Digital Plus (DD+), DTS-ES, DTS-HD Master, DTS HD-HRA, DTS-X
Infra-Red: Wide Bandwidth, Frequency 30KHz to 56KHz (940nm)

Power

Input: 12V D.C. (Not required when connected to the matrix)

Environment

Operating Temperature: -5° to 40°C
Storage Temperature: -10° to 60°C
Operating Humidity: 5 to 90% RH (no condensation)
Dimensions: (W) 61 x (D) 88 x (H) 18
Weight: 155g
Colour: Black
ESD: Human Body - +/-8kV, (air gap discharge) & +/-4kV (contact discharge)
Safety and Emissions: CE, FCC, RoHS

Application Drawing