

Scion-Tech Ltd

SC08.MX1000

*Distribution, Switching and
Video Wall Processing 9x9*

www.scion-tech.co.uk

AV over IP

Features

- Resolutions up to 4K/60Hz
- HDMI 2.0b and HDCP 2.2
- HDR10, Dolby Vision, HLG
- Dolby TrueHD, 7.1CH
- eARC/ARC and SPDIF Return
- Infra-Red and RS232
- USB KVM
- Control: RS232, TCP/IP, Web
- PoE (802.3at)
- 1G LAN with IGMP

AV Distribution The Easy Way: Design and Create Any AV Project Over a 1G Network

Applications

- Sports Stadiums
- Healthcare
- Education
- Bars, Clubs & Restaurants
- Marine
- Retail - Digital Signage
- Commercial Offices

The MX1000 is a video over IP solution for high definition signal extension over copper cables. This solution leverages 1G Ethernet switches and enables signal management of 4K/60Hz (4:4:4) signals with virtually zero frame latency. Bi-Directional RS232, USB, Infra-Red and embedded audio are also supported.

The video wall mode allows a single video source to be stretched across multiple displays, each receiver crops and scales the region of interest according to its position in the wall matrix. The receivers are locked to the source and thus to each other with no frame rate conversion.



User Friendly Web Interface

Control

The devices are managed and controlled using front panel buttons, RS232, Web GUI and API control codes over the network with the integrated web browser or from virtually any third party controller, including those from AMX, Crestron, Control4.



Point-to-Point, Matrix Switching & Video Wall 9x9

Audio Integration

Embedding & De-Embedding

The MX1000 AV over IP is designed to provide seamless audio integration in modern AV systems. Whether you are working with analogue or digital audio sources, these devices have you covered. With support for ARC/eARC and SPDIF audio return, you can easily embed and de-embed audio signals with minimal hassle. Say goodbye to complex wiring and connectivity issues – the MX1000 AV over IP streamlines the audio integration process, allowing for a smooth and efficient workflow.

4K/60Hz 4:4:4

MX1000 AV over IP is a revolutionary technology that offers unparalleled audiovisual quality, flexibility, and reliability. By harnessing the power of JPEG2000 encoding, MX1000 delivers immersive 4K video that will take your viewing experience to new heights. Whether you're a home theater enthusiast or a professional AV integrator, MX1000 AV over IP is the perfect solution for all your audiovisual needs.



JPEG2000 Encoding

Audio Return

Advanced audio return for ARC, eARC, SPDIF and analogue audio, making the MX1000 a top choice for audio professionals and enthusiasts.

Embed & De-Embed

This innovative device supports both analogue and digital audio embedding and de-embedding.

Dante AV

Supports Dante AV-A mode with license activation.

Performance Matters



Technical Specification

Connectivity

HDMI 2.0b Input	1 x HDMI Type-A, 19-Pin Female
HDMI 2.0b Looped Output	1 x HDMI Type-A, 19-Pin Female
Digital Audio Output	1 x SPDIF Output (Optical)
Analogue Audio In/Out	1 x 3-Pin Phoenix Terminal
IR In/Out	1 x 3.5mm Jack Socket
Digital I/O Relay	2 x 4-Pin Phoenix Terminal
1G LAN	1 x RJ45 Data Socket
Fibre	1 x SFP+ Slot (module not included)
Power	1 x DC Jack Socket

Signals

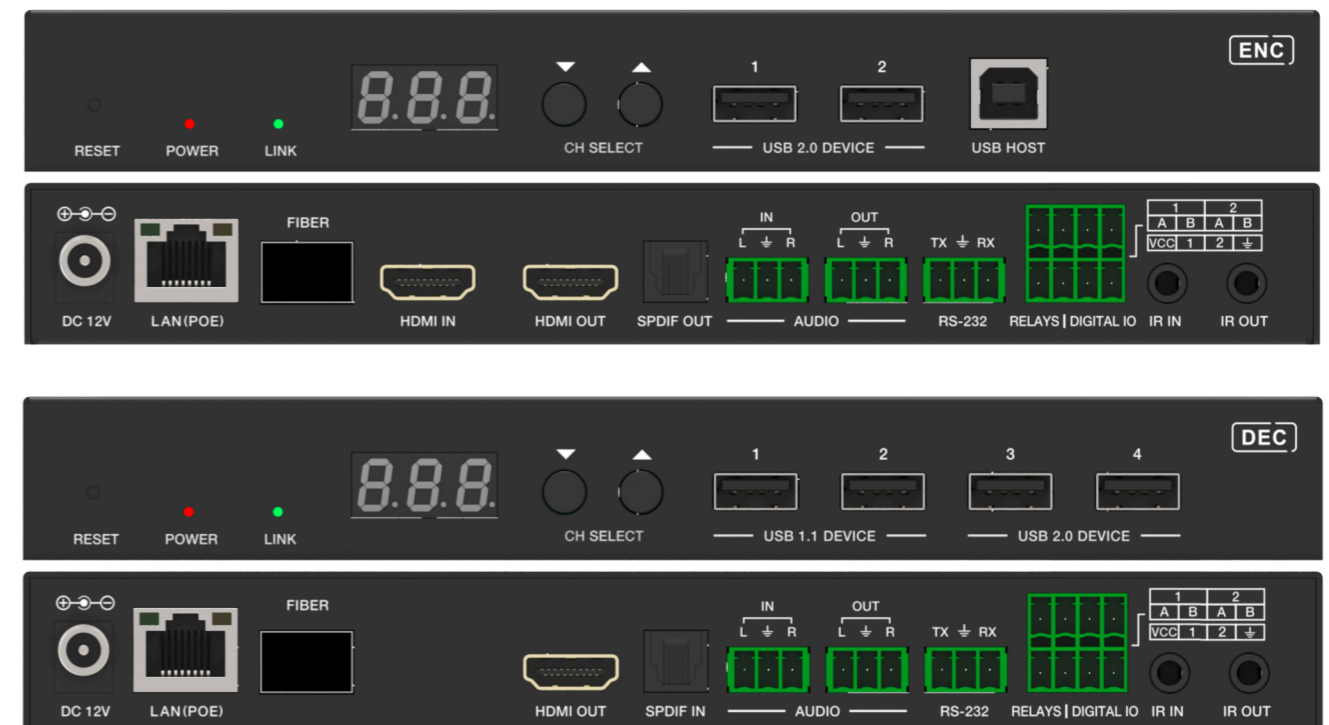
Input	HDMI
Standards	HDMI 2.0b, HDCP 2.2/1.4
Bandwidth	18Gbps
Video Resolutions	Up to 4K/60Hz
Colour Space	RGB/YCbCr 4:4:4, YCbCr 4:2:2, YUV 4:2:0, HDR, HDR10 and Dolby Vision™
Colour Depth	8/10/12-bit
HDMI Audio	LPCM 7.1, Dolby Atmos™, Dolby True HD™, Dolby Digital Plus™, DTS: X™, DTS-HD Master Audio™
Analogue Audio	PCM 2CH Analogue Stereo
Infrared	20KHz to 60KHz (940nm)
RS232	Full Duplex
1G LAN	1000 BASE-T, IEEE 802.3ab

Power

Type	AC - DC Power Adaptor (when not using PoE)
Input	100 ~ 240V AC 50/60Hz
Output	12V / 1Amp
Consumption	Encoder: 8.52W, Decoder: 7.08W (max)

Environment

Storage Temperature	-20° to 60°C
Operating Temperature	-0° to 40°C
Operating Humidity	20% to 90% RH (no condensation)
Dimensions	ENC/DEC: (W) 204 x (D) 136 x (H) 25mm
Weight	
ESD	Human body +/-8Kv, (air gap discharge) and +/-4Kv (contact discharge)
Safety & Emissions	US/EU Certified, CE, FCC, UL, RoHS



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