

Configurable AV Matrix over IP with Video Wall 4K/60Hz 4:4:4



Key Features

- Uses H.264 or H.265 Encoding
- 4K/60Hz, 4:4:4, HDMI 2.0, HDCP 2.2
- Point-to-Point, Point-to-Multipoint & Multipoint-to-Multipoint
- Video Wall and Multi-Viewer
- Uses 1G Ethernet
- Matrix Routes - IR, RS232, USB
- Analogue Audio Pass-Through
- PoE (Power over Ethernet)
- Control: RS232, TCP/IP, Web Interface

Description

The SC08.MX650 is an IP solution for distributing and switching HDMI signals over industry standard 1G networks, just like any conventional matrix without restricting the number of inputs and outputs. These encoders and decoders enable signal management of 4K/60Hz (4:4:4) signals with low latency, bi-directional infra-red, full duplex RS232, USB 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. Furthermore, the system is capable of splitting the wall to create a multi-view environment.

The SC08.MX650 is managed and controlled using RS232 or TCP/IP over the network with an integrated web browser or from virtually any third party controller, including those from AMX, Crestron, Control4.

Specifications

Technical	
HDMI Standards	HDMI 2.0, HDCP 2.2
Bandwidth	10.2Gbps
Video Resolutions	Up to 4K/60Hz
Colour Space	RGB / YCbCr 4:4:4, YCbCr 4:2:2, YUV 4:2:0
Colour Depth	8-bit
HDMI Audio Formats	LPCM 7.1CH, Dolby True HD™, Dolby Digital Plus™ and DTS HD Master Audio™.
Analogue Audio	L/R Stereo Audio 20KHz, 0dB, 10K ohms
Infra-Red	Wide Bandwidth 30KHz to 56KHz (940nm)
End to End Latency	Less than 100ms
Transmission Distance	100m @ 4K point-to-point or greater using 1G switches (LAN)

Transmitter Connections		
Inputs	HDMI	1 x HDMI Type A, 19-Pin
	Infra-Red	1 x 4-Pin Phoenix Terminal
	Stereo Audio	1 x 3-Pin Phoenix Terminal
	Ethernet	1 x RJ45 Data Socket
	RS232	1 x 3-Pin Phoenix Terminal
	USB	1 x USB Type B (Host)
	Power	1 x 2.1mm Jack Socket
Outputs	HDMI (Looped)	1 x HDMI Type A, 19-Pin
	Stereo Audio	1 x 3-Pin Jack Socket
	Infra-Red	1 x 2-Pin Phoenix Terminal
Receiver Connections		
Inputs	Ethernet	1 x RJ45 Data Socket
	Infra-Red	1 x 4-Pin Phoenix Terminal
	RS232	1 x 3-Pin Phoenix Terminal
	Power	1 x 2.1mm Jack Socket
Outputs	HDMI	1 x HDMI Type A, 19-Pin
	Infra-Red	1 x 2-Pin Phoenix Terminal
	Stereo Audio	1 x 3-Pin Phoenix Terminal
	USB	2 x USB Type A (Devices)

Power	Transmitter	Receiver
Type	AC to DC Mains Adaptor	AC to DC Mains Adaptor
Input	100 ~ 240V AC 50/60Hz	100 ~ 240V AC 50/60Hz
Output	DC 12V	DC 12V
Consumption	2.4 Watt	2 Watt

Environment	Transmitter	Receiver
Storage Temperature	-20° to 60°C	
Operating Temperature	0° to 40°C	
Operating Humidity	20% to 90% RH (No Condensation)	
Dimensions	(W) 200 x (D) 100 x (H) 20mm	(W) 200 x (D) 100 x (H) 20mm
Weight	470g	475g
ESD	Human Body: +/-8Kv (air gap discharge), +/-4Kv (contact discharge)	
Safety & Emissions	CE, FCC, RoHS	