

Modular Seamless Matrix 4

- 8x8 Matrix (MSMX4-08)
- 16x16 Matrix (MSMX4-16)
- 36x36 Matrix (MSMX4-36)

Modular Seamless Matrix 4 MSMX4-08/16/36

This Modular Seamless Matrix 4 is a professional all-in-one machine that supports various audio and video signal switching and distribution, integrated video wall function and control system.



It supports up to 8~36 signal inputs and 8~36 signal outputs. Audio and video matrix adopts pure hardware high-speed matrix switching chip, which has high integration, stable system, no compression /loss/delay of signal.

Advanced full digital signal processing technology can ensure signal distortion-free processing, and the best image quality to the display devices.

Main Features

- 1** 4 Channel per card, support DVI-U, VGA, 3G-SDI, HDMI, HDBaseT, Fiber



- 2** Mixture cards seamless switching



- 3** Remote Reboot and Remote Standby Mode



- 4** Firmware Free Upgrade for add-on features

- 5** Control by Front Panel Buttons, IR, RS232, TCP/IP, Web GUI, PC Software and Viutron Touch Panel, Ipad and Andriod Device



- 6** 64 kinds of scene configuration setup can be programmed by ONE command control

- 7** Dual AC power Module



- 8** Hardware customized ready on customer request

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Modular Seamless Matrix 4

8x8 Matrix (MSMX4-08)

16x16 Matrix (MSMX4-16)

36x36 Matrix (MSMX4-36)

Product Data Sheet



MSMX4-08



MSMX4-16



MSMX4-36

Model	MSMX4-08	MSMX4-16	MSMX4-36
Description (Class)	8x8 Chassis Matrix (2U)	16x16 Chassis Matrix (3U)	36x36 Chassis Matrix (6U)
Input Card	four-channel per card, support HDMI, DVI, VGA, 3G-SDI, HDBaseT, Fiber Optic		
Output Card	four-channel per card, support HDMI, DVI, VGA, 3G-SDI, HDBaseT, Fiber Optic		
Protocol	HDMI1.4/ HDMI2.0b, DVI1.0, compatible with HDCP 1.4/2.2 and EDID function		
Color Space	RGB444, YCbCr 4:4:4 / 4:2:2 / 4:2:0		
Resolution	1920x1080@60Hz, 4K30Hz, 4K60Hz		
Data Speed	18Gbps		
Transmission Distance	150m(Cat6), 30km(Fiber)		
Control Methods	Font Panel Button, IR, Serial RS232, open API via LAN, Touch Panel via internal controller		
Dimension	480(W)x375(D)x89(H) mm	480(W)x375(D)x133(H) mm	480(W)x375(D)x266(H) mm
Weight	6kg (without cards)	80W - 300W	200W - 900W
Power Consumption	40W - 200W	9kg (without cards)	15kg (without cards)
Power Supply	AC 100-240V, 50/60Hz		
Working Temp	0°C ~ 40°C		
Storage Temp	-25°C ~ 60°C		

Modular Seamless Matrix 4

4 Channels **INPUT** cards

- IN4-DVI-HD
- IN4-VGA-HD

IN4-DVI-HD



- DVI-I female full digital TMDS input signal x 4
- Max Video distance: 15m at 1080p
- Color Depth: 8/10 /12-bit (1080P60Hz)
- Color Space: RGB, YCbCr 4:4:4/4:2:2/4:2:0
- Video Bandwidth: 148.5MHz/3Gbps
- Video Resolution: 1920x1080P60Hz
- Video Seamless Switching
- Upscale, Downscale, EDID support; HDMI 1.4 and HDCP 1.4
- Audio in selection: Phoenix audio embedded (LPCM 2.0CH)

IN4-VGA-HD



- RGB (Analog) VGA input signal x 4
- Max Video distance: 10m at 1080p
- Color Space: RGB
- Video Bandwidth: 148.5MHz/3Gbp
- Video Resolution: 1920x1080P60Hz
- Video Seamless Switching
- Upscale, Downscale Support

Modular Seamless Matrix 4

4 Channels **INPUT** cards

- IN4-SDI-HD
- IN4-FO-HD

IN4-SDI-HD



- BNC female HD-SDI/3G-SDI input signal x 4
- Max Video distance: 100m at 1080p
- Color Depth: 8/10-bit 1080P60Hz
- Color Space: YCbCr 4:2:2
- Video Bandwidth: 148.5MHz/3Gbps
- Video Resolution: 1920x1080P60Hz
- Video Seamless Switching
- Upscale, Downscale Support
- Audio in selection: Phoenix audio embedded (LPCM 2.0CH)

IN4-FO-HD



- LC female fibre input signal x 4
- Max Video distance: single mode 10km/multimode 300m at 1080p
- Color Depth: 8/10 /12-bit (1080P60Hz)
- Color Space: RGB, YCbCr 4:4:4/4:2:2/4:2:0
- Video Bandwidth: 148.5MHz/3Gbps
- Video Resolution: 1920x1080P60Hz
- Video Seamless Switching
- Upscale, Downscale, EDID support; HDMI 1.4 and HDCP 1.4
- Audio in selection: Phoenix audio embedded (LPCM 2.0CH)
- RS232 pass-through

Modular Seamless Matrix 4

4 Channels **INPUT** cards

- IN4-HDMI-4K
- IN4-HDB-4K-150-PI

IN4-HDMI-4K



- HDMI Type A input signal x 4
- Max Video distance: 15m at 1080p; 8m at 4K60
- Color Depth: 8/10/12-bit(4K30Hz); 8-bit (4K60Hz 4:4:4)
- Color Space: RGB, YCbCr 4:4:4/4:2:2/4:2:0
- Video Bandwidth: 600MHz/18Gbps
- Video Resolution: 3840x2160Hz 4:4:4
- Video Seamless Switching
- Upscale, Downscale, EDID support; HDMI 2.0b and HDCP 2.2
- Audio in selection: Phoenix audio embedded (LPCM 2.0CH) or HDMI audio (LPCM 2.0/5.1/7.1CH)

IN4-HDB-4K-150-PI



- RJ45 HDBT input signal x 4
- Max Video distance: 150m at 1080p; 120m at 4K60
- Color Depth: 8/10/12-bit(4K30Hz); 8-bit (4K60Hz 4:4:4)
- Color Space: RGB, YCbCr 4:4:4/4:2:2/4:2:0
- Video Bandwidth: 600MHz/18Gbps
- Video Resolution: 3840x2160Hz 4:4:4
- Video Seamless Switching
- Upscale, Downscale, EDID support; HDMI 2.0b and HDCP 2.2
- Audio in selection: Phoenix audio embedded (LPCM 2.0CH) or HDMI audio (LPCM 2.0/5.1/7.1CH)
- POC Extender HDB100-4K-150 TX support; RS232 pass-through

Modular Seamless Matrix 4

4 Channels **OUTPUT** cards

- OUT4-DVI-HD
- OUT4-VGA-HD

OUT4-DVI-HD



- DVI-I female full digital TMDS output signal x 4
- Max Video distance: 15m at 1080p
- Color Depth: 8-bit((1080P60Hz)
- Color Space: RGB4:4:4
- Video Bandwidth: 148.5MHz/3Gbps
- Video Resolution: 1920x1080P60Hz
- Video Seamless Switching
- Upscale, Downscale, EDID support; HDMI 1.4 and HDCP 1.4
- Audio out independent on/off: Phoenix audio de-embedded (LPCM 2.0CH)

OUT4-VGA-HD



- RGB (Analog) VGA output signal x 4
- Max Video distance: 10m at 1080p
- Color Space: RGB
- Video Bandwidth: 148.5MHz/3Gbps
- Video Resolution: 1920x1080P60Hz
- Video Seamless Switching
- Upscale, Downscale Support

Modular Seamless Matrix 4

4 Channels **OUTPUT** cards

- **OUT4-SDI-HD** • **OUT4-FO-HD**

OUT4-SDI-HD



- BNC female HD-SDI/3G-SDI output signal x 4
- Max Video distance: 100m at 1080p
- Color Depth: 8/10-bit 1080P60Hz
- Color Space: YCbCr 4:2:2
- Video Bandwidth: 148.5MHz/3Gbps
- Video Resolution: 1920x1080P60Hz
- Video Seamless Switching
- Upscale, Downscale Support
- Audio out independent on/off: Phoenix audio de-embedded (LPCM 2.0CH)
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OUT4-FO-HD



- LC female fibre output signal x 4
- Max Video distance: single mode 10km/multimode 300m at 1080p
- Color Depth: 8-bit((1080P60Hz)
- Color Space: RGB4:4:4
- Video Bandwidth: 148.5MHz/3Gbps
- Video Resolution: 1920x1080P60Hz
- Video Seamless Switching
- Upscale, Downscale, EDID support; HDMI 1.4 and HDCP 1.4
- Audio out independent on/off: Phoenix audio de-embedded (LPCM 2.0CH)
- RS232 pass-through

Modular Seamless Matrix 4

4 Channels **OUTPUT** cards

- **OUT4-HDMI-4K** • **OUT4-HDB-4K-150-PI**

OUT4-HDMI-4K



- HDMI Type A output signal x 4
- Max Video distance: 15m at 1080p; 8m at 4K60
- Color Depth: 8/10/12-bit(4K30Hz); 8-bit (4K60Hz 4:4:4);
- Color Space: RGB, YCbCr 4:4:4/4:2:2/4:2:0
- Video Bandwidth: 600MHz/18Gbps
- Video Resolution: 3840x2160Hz 4:4:4
- Video Seamless Switching
- Upscale, Downscale, EDID support; HDMI 2.0b and HDCP 2.2
- Video Output Quality Adjustment; Black Screen kept 5 min while no video input
- Audio out independent on/off: Phoenix audio de-embedded (LPCM 2.0CH) or/and HDMI audio (LPCM 2.0/5.1/7.1CH)

OUT4-HDB-4K-150-PI



- RJ45 HDBT output signal x 4
- Max Video distance: 150m at 1080p; 120m at 4K60
- Color Depth: 8/10/12-bit(4K30Hz); 8-bit (4K60Hz 4:4:4)
- Color Space: RGB, YCbCr 4:4:4/4:2:2/4:2:0
- Video Bandwidth: 600MHz/18Gbps
- Video Resolution: 3840x2160Hz 4:4:4
- Video Seamless Switching
- Upscale, Downscale, EDID support; HDMI 2.0b and HDCP 2.2
- Video Output Quality Adjustment; Black Screen kept 5 min while no video input
- Audio out independent on/off: Phoenix audio de-embedded (LPCM 2.0CH) or/and HDMI audio (LPCM 2.0/5.1/7.1CH)
- POC extender HDB100-4K-150 RX support; RS232 pass-through

HDBT Transmitter & Receiver

- HDB100-4K-150 TX
- HDB100-4K-150 RX

HDBT Transmitter HDB100-4K-150 TX

This 18Gbps HDMI Extender can extend high definition video / audio signal, RS-232, bi-directional IR, and the distance is up to 492ft / 150 meters between transmitter and receiver via a single CAT6 cable. It supports resolution up to 4K2K@60Hz 4:4:4, 18Gbps and HDCP 2.2.



PoC (Power over Cable)

HDBT Receiver HDB100-4K-150 RX

The extender also supports de-embedded audio for L/R audio output. In addition, the extender is equipped with two-way IR pass-through which allows for source and display control

Model	Transmitter (TX) HDB100-4K-150 TX	Receiver (RX) HDB100-4K-150 RX
Color Space	RGB / YCbCr 4:4:4	
Color Depth	8/10/12-bit (1080P60Hz, 4K30Hz, 4K60Hz YCbCr4:2:2/4:2:0) 8-bit (4K60Hz 4:4:4)	
HDMI Audio	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	
Inputs	1x HDMI Type A [19-pin female]	1x HDBT IN [RJ45, 8-pin female]
Outputs	1x HDMI Type A [19-pin female] 1x HDBT OUT [RJ45, 8-pin female]	1x HDMI Type A [19-pin female] 1x AUDIO OUT [3.5mm Stereo Mini-jack]
Control	1x IR IN [3.5mm Stereo Mini-jack] 1x IR OUT [3.5mm Stereo Mini-jack] 1x RS-232 [Phoenix jack] 1x SERVICE [Mini-USB, Update port]	1x IR IN [3.5mm Stereo Mini-jack] 1x IR OUT [3.5mm Stereo Mini-jack] 1x RS-232 [Phoenix jack] 1x SERVICE [Mini-USB, Update port]
Dimensions	140mm [W] x 65mm [D] x 18mm [H]	
Weight	160g	155g
Power Consumption	9.36W	
Operating Temperature	0 - 50°C	
Storage Temperature	-20 - 60°C	
Cat 6 Cable Length	120M@4K2K; 150M@1080P	
HDMI IN/OUT	5M@4K60; 10M@4K30; 15M@1080P60	