

TMX Series Matrix Switchers







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TMX Series Matrix Switchers

TMX-M8/M16 series Mixe	ed Card Matrix Switcher
TMX-M16	16×16 Mixed Card Matrix Switcher Frame
TMX-M8	8x8 Mixed Card Matrix Switcher Frame
TMX-VGA-2IN	Dual-channel VGA Seamless Input Card(for TMX-M8 and TMX-M16, 2 VGA inputs, 2 stereo audio inputs, support VGA, input signal with automatic line doubling function, automatic recognition of input resolution, support for EDID management learning function)
TMX-VGA-2OUT	Dual-channel VGA Seamless Output Card(for TMX-M8 and TMX-M16, 2 VGA outputs, 2 stereo audio outputst, support EDID management learning function)
TMX-SDI-2IN	Dual-channel SDI Seamless Input Card(for TMX-M8 and TMX-M16, 2 SDI inputs, 2 SDI loop out,support SDI, HD-SDI, 3G – SDI, input signal with automatic line doubling function, automatic recognition of input resolution)
TMX-SDI-2OUT	Dual-channel SDI Seamless Output Card(for TMX-M8 and TMX-M16, 2 SDI outputs, support SDI, HD-SDI, 3G – SDI)
TMX-HDMI-2IN	Dual-channel HDMI Input Card(for TMX-M8 and TMX-M16, 2 HDMI inputs, 2 stereo audio inputs, supports HDMI1.3/DVI1.0, compatible with DVI, support the highest resolution 1920×1080)
TMX-HDMI-2OUT	Dual-channel HDMI Output Card(for TMX-M8 and TMX-M16, 2 HDMI outputs, 2 stereo audio outputs, supports HDMI1.3/DVI1.0, compatible with DVI, support the highest resolution 1920×1080).
TMX-4KHDMI-2IN	Dual-channel 4K HDMI Input Card(for TMX-M8 and TMX-M16, 2 HDMI inputs, 2 stereo audio inputs, support HDMI2.0 and DVI1.0, compatible with DVI signals, support the highest resolution HDMI 2.0 4K 444@60Hz)
TMX-4KHDMI-2OUT	Dual-channel 4K HDMI Output Card(for TMX-M8 and TMX-M16, 2 HDMI outputs, 2 stereo audio outputs, support HDMI2.0 and DVI1.0, compatible with DVI signals, support the highest resolution HDMI 2.0 4K 444@60Hz)
TMX-0808/1616MX serie	s Mixed Card Matrix Switcher
TMX-1616MX	16×16 Mixed Card Matrix Switcher Frame
TMX-0808MX	08×08 Mixed Card Matrix Switcher Frame
TMX-HDMI-4IN	4 Channels HDMI Input Card (support HDMI1.3 and HDCP, compatible with DVI signal, build-in upscaling function)
TMX-DVI-4IN	4 Channels DVI-I Input Card (build-in upscaling function)
TMX-SDI-4IN	4 Channels SDI Input Card (SDI input/loop-output conpatible with 3G-SDI/HD-SDI, build-in upscaling function)
TMX-VGA-4IN	4 Channels VGA Input Card (compatible with VGA, YUV, YC, CVBS via converter cables, phoenix for left & right channel audio input, build-in upscaling function)
TMX-HDMI-4OUT	4 Channels HDMI Output Card (support HDMI1.3 and HDCP, 4 analog audio output (unbalance stereo), seamless switching)
TMX-DVI-4OUT	4 Channels DVI-I Output Card (support HDCP, 4 analog audio output (unbalance stereo), seamless switching)
TMX-SDI-4OUT	4 Channels SDI Output Card (SDI input/loop-output conpatible with 3G-SDI/HD-SDI, seamless switching)
TMX-VGA-4OUT	4 Channels VGA Output Card (4 analog audio output (unbalance stereo), seamless switching)
DVI Matrix Switchers	
TMX-0808DVI	8x8 DVI Matrix Switcher, 2.25 Gbps, DVI-I Connectors
Composite Video& Audi	o Distribution Amplifiers
HCS-4112M/29	1×10 Broadcast Standard Audio Distributor
	(3-pin XLR input/output connectors, adjustable gain output, built-in earth isolated set)

HCS-4112M/10	1×29 Broadcast Standard Audio Distributor (3-pin XLR input/output connectors, adjustable gain output, built-in earth isolated set)	19
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TMX-M16 16×16 Mixed Card Matrix Switcher Frame



Features

- High performance video signal matrix , support seamless switching, after change source, new video comes out in a few milliseconds, high-fidelity output
- Widely used in the place of radio & television engineering, multimedia conference hall, large screen display engineering, TV teaching and leadership office
- Gen-lock based Video Wall: based on Gen-Lock technology, the video delay between any output channels is less than 0.1 ms, the video will not distorted. Available in up to 16 x 16 output channels. It's especially matched with LCD/LED Video Wall
- Supports manifold signal input/output cards, such as HDMI, SDI, VGA, 4KHDMI, etc.
- Combined with different signal cards to resolve integrative audiovisual resolution
- Can be configured up to 8 input boards,8 output boards, each board supports 2 ports, a total of 16 inputs and 16 outputs
- Compatible with manifold signal formats of input/output signal cards for cross switching
- Support various format of signals input, and the output resolution is default as 1080P60, can be setup by Matrix Control Tool
- Independent resolution selection for each output without affecting each other
- Maximum resolution of 2K cards :1920 x 1200@60Hz and 4K cards : 3840x2160 444@60Hz
- With 1 RJ45 interface, supports TCP / IP , can communicate with the TAIDEN conference system, can realize video tracking function
- With 1 RS232 interface ,for connecting to PC, central control system or HCS-3316CK Camera Control Keypad
- With 2 RS422 interface, for connecting to dome camera with built-in a variety of professional camera control protocol, can control TAIDEN HCS-3316HDN, TAIDEN HCS-3316HDN,, HCS-9316HDN, HUAWEI, SONY, PELCO, Panasonic and other professional cameras
- With Matrix Control Tool, can realize remote control, including Matrix Switch, Signal Setting, etc.
- Power-off protection for work status

- LCD to display real-time operation
- Front panel button control , easy to switch manually
- Redundant power supply

Technical Specifications

Control

COM (RS-232)	3-Pin Phoenix, RS-232 protocol
	with baud rate 115200 bps
RJ45	TCP/IP
RS422	2 × 5-Pin Phoenix
	For connecting to dome camera
Signal cards	4 input signal cards,
	4 output signal cards
Resolution	Max. 1920x1200 @60Hz (2K cards)
	Max. 3840x2160 @60Hz (4K cards)

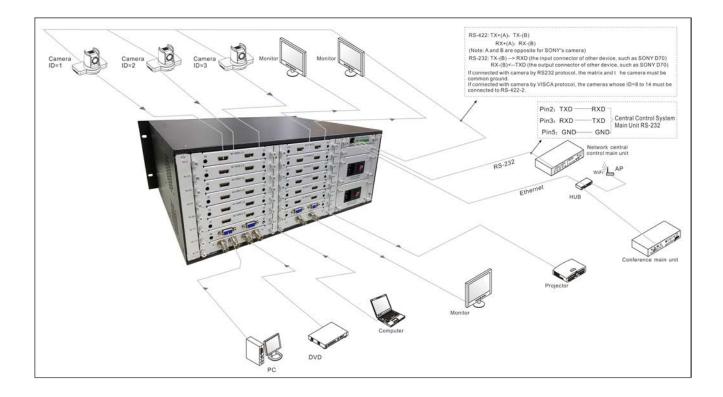
General specs

Power supply	AC 100 V - 240 V, 50 Hz / 60 Hz
Temperature	Operating: 0 °C to + 50 °C;
	storage: -20 °C to + 70 °C
Humidity	Storage and operating: 10% to 90%
Dimensions h × w ×d (mm)	177×483×366
	(3U high, full rack width)
Weight (w/o signal cards)	10.5 kg
Color	Gray (PANTONE- 465, RAL - 7022)
Mean time between failures	30,000 hours

Ordering Information

TMX-M16_____ 16 × 16 Mixed Card Matrix Switcher Frame

TMX-M16 Mixed Card Matrix Switcher System Connection



TMX-M8 8×8 Mixed Card Matrix Switcher Frame



Features

- High performance video signal matrix , support seamless switching, after change source, new video comes out in a few milliseconds, high-fidelity output
- Widely used in the place of radio & television engineering, multimedia conference hall, large screen display engineering, TV teaching and leadership office
- Gen-lock based Video Wall: based on Gen-Lock technology, the video delay between any output channels is less than 0.1 ms, the video will not distorted. Available in up to 8 ×8 output channels. It's especially matched with LCD/LED Video Wall
- Supports manifold signal input/output cards, such as HDMI, SDI, VGA, 4KHDMI, etc.
- Combined with different signal cards to resolve integrative audiovisual resolution
- Can be configured up to 4 input boards, 4 output boards, each board supports 2 ports, a total of 8 inputs and 8 outputs
- Compatible with manifold signal formats of input/output signal cards for cross switching
- Support various format of signals input, and the output resolution is default as 1080P60, can be setup by Matrix Control Tool
- Independent resolution selection for each output without affecting each other
- Maximum resolution of 2K cards :1920 x 1200@60Hz and 4K cards : 3840x2160@60Hz
- With 1 RJ45 interface, supports TCP / IP , can communicate with the TAIDEN conference system, can realize video tracking function
- With 1 RS232 interface ,for connecting to PC, central control system or HCS-3316CK Camera Control Keypad
- With 1 RS422 interface, for connecting to dome camera with built-in a variety of professional camera control protocol, can control TAIDEN HCS-3316HDN, HUAWEI, SONY, PELCO, Panasonic and other professional cameras
- With Matrix Control Tool, can realize remote control, including Matrix Switch, Signal Setting, etc.
- Power-off protection for work status
- LCD to display real-time operation
- Front panel button control, easy to switch manually
- Redundant power supply

Technical Specifications

Control

COM (RS-232)	3-Pin Phoenix, RS-232 protocol
	with baud rate 115200 bps
RJ45	TCP/IP
RS422	5-Pin Phoenix
	For connecting to dome camera
Signal cards	4 input signal cards,
	4 output signal cards
Resolution	Max. 1920x1200 @60Hz (2K cards)
	Max. 3840x2160 @60Hz (4K cards)

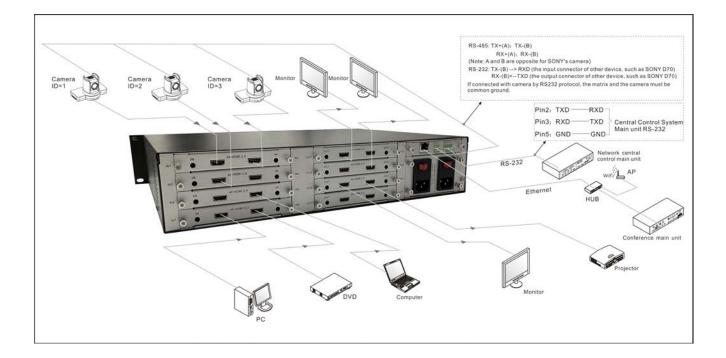
General specs

Power supply	AC 100 V - 240 V, 50 Hz / 60 Hz
Temperature	Operating: 0 °C to + 50 °C;
	storage: -20 °C to + 70 °C
Humidity	_Storage and operating: 10% to 90%
Dimensions h × w ×d (mm)	89×483×365
	(2U high, full rack width)
Weight (w/o signal cards)	6.4 kg
Color	_Gray (PANTONE- 465, RAL - 7022)
Mean time between failures	30,000 hours

Ordering Information

TMX-M8 8 × 8 Mixed Card Matrix Switcher Frame

TMX-M8 Mixed Card Matrix Switcher System Connection



TMX-VGA-2IN 2 Channels VGA Seamless Input Card



Features

- Seamless input signal card;
- Dual VGA input channels with 2 Ø3.5mm earphone jack for analog audio input
- Enable to select embedded audio in VGA or external Ø 3.5mm earphone input.
- Input resolution supports 800 x 600, 1024 x 768, 1280 x 768, 1280 x 800, 1280 x 1024, 1360 x 768, 1400 x 1050, 1600 x 1200, 1920 x 1080
- Support EDID learning function.

TMX-VGA-2OUT 2 Channels VGA Seamless Output Card



Features

- Seamless Output signal card;
- Dual VGA input channels with 2 Ø3.5mm earphone jack for analog audio input
- Enable to select embedded audio in VGA or external Ø 3.5mm earphone input.
- Output resolution supports 800 x 600, 1024 x 768, 1280 x 768, 1280 x 800, 1280 x 1024, 1360 x 768, 1400 x 1050, 1600 x 1200, 1920 x 1080
- Support EDID learning function.

Technical Specifications

Input signal	VGA signal
	Analog audio signal
Interface	
	2 × Ø 3.5mm earphone
Power consumption	<5W
Bandwidth	

General specs

Temperature	Operating: 0 °C to + 50 °C;
	storage: -20 °C to + 70 °C
Humidity	Storage and operating: 10% to 90%
Weight	125 g

Ordering Information

TMX-VGA-2IN_____Dual-channel VGA Seamless Input Card(for TMX-M8 and TMX-M16, 2 VGA inputs, 2 stereo audio inputs, support VGA, input signal with automatic line doubling function, automatic recognition of input resolution, support for EDID management learning function)

Technical Specifications

Output signal	VGA signal
	Analog audio signal
Interface	2 ×15-pin female D connector
	2 × Ø 3.5mm earphone
Power consumption	<5W
Bandwidth	>300 MHz

General specs

Temperature	Operating: 0 °C to + 50 °C;
	storage: -20 °C to + 70 °C
Humidity	Storage and operating: 10% to 90%
Weight	125 g

TMX-VGA-2OUT	Dual-channel VGA Seamless Output
	Card(for TMX-M8 and TMX-M16,
	2 VGA outputs, 2 stereo audio
	outputst, support EDID
	management learning function)

TMX-SDI-2IN 2 Channels SDI Input Card



Features

- Seamless input signal card;
- Each channel of input signal card with a SDI loop-output;
- Dual Input ports: BNC Female
- Supporting input formats: SDI, HD-SDI, 3G-SDI;
- Built-in upscaling function
- The resolution can be adjusted, supporting up to 1080p60

TMX-SDI-2OUT 2 Channels SDI Output Card



Features

- Seamless Output signal card;
- Dual Output ports: BNC Female
- Supporting input formats: SDI, HD-SDI, 3G-SDI;
- Built-in upscaling function
- The resolution can be adjusted, supporting up to 1080p60

Technical Specifications

Input signal	2 ×SDI signal with 2 SDI looping out
Interface	BNC connector
Power consumption	<5 W
Signal types	SDI, HD-SDI, 3G-SDI
Resolution	Supports input formats up to 1080P@60Hz

General specs

Temperature	Operating: 0 °C to + 50 °C;
	storage: -20 °C to + 70 °C
Humidity	Storage and operating: 10% to 90%
Weight	125 g

Ordering Information

TMX-SDI-2IN_____Dual-channel SDI Seamless Input Card(for TMX-M8 and TMX-M16, 2 SDI inputs, 2 SDI loop out,support SDI, HD-SDI, 3G – SDI, input signal with automatic line doubling function, automatic recognition of input resolution)

Technical Specifications

Output signal	2 ×SDI signal with 2 SDI looping out
Interface	BNC connector
	<5 W
Signal types	SDI, HD-SDI, 3G-SDI
Resolution	Supports input formats up to 1080P@60Hz

General specs

Temperature	Operating: 0 °C to + 50 °C;
	storage: -20 °C to + 70 °C
Humidity	_Storage and operating: 10% to 90%
Weight	125 g

Ordering Information

TMX-SDI-2OUT	Dual-c
	Card(
	SDI o

Dual-channel SDI Seamless Output Card(for TMX-M8 and TMX-M16, 2 SDI outputs, support SDI, HD-SDI, 3G – SDI)

TMX-HDMI-2IN 2 Channels HDMI Input Card



Features

- 2K Seamless HDMI Input Module
- Dual Ø 3.5mm earphone jack for analog audio input
- Dual HDMI Type A 19P Female input ports, supports HDMI1.3/DVI1.0
- Supports input formats: 800×600, 1024×768, 1280×768, 1280×800, 1280×1024, 1360×768, 1400×1050, 1600×1200, 1920×1080
- Signal bandwidth: 6.75Gpbs
- Audio format: PCM
- Enable to select embedded audio in HDMI or external Ø3.5mm earphone input.

TMX-HDMI-2OUT 2 Channels HDMI Output Card



Features

- 2K Seamless HDMI Output Module
- Dual Ø 3.5mm earphone jack for analog audio output
- Dual HDMI Type A 19P Female input ports, supports HDMI1.3/DVI1.0
- Supports output formats: 800x600, 1024x768, 1280x768, 1280x800, 1280x1024, 1360x768, 1400x1050, 1600x1200, 1920x1080
- Signal bandwidth: 18Gpbs
- Audio format: PCM

Technical Specifications

Input signal	2 ×HDMI input signal (compatible with DVI),
	2 ר 3.5mm earphone analog audio signal
Interface	Type A 19P female
Power consumption	5 W
Signal types	DVI, HDMI
Bandwidth	6.75Gpbs
Color depth	<u>8 & 10 & 12 bit</u>
Audio format	PCM
Standard	Supports HDMI1.3 / DVI1.0
Resolution	Supports input formats: up to 1920×1080

General specs

Temperature	Operating: 0 °C to + 50 °C;
	storage: -20 °C to + 70 °C
Humidity	Storage and operating: 10% to 90%
Weight	125 g

Ordering Information

TMX-HDMI-2IN_____Dual-channel HDMI Input Card(for TMX-M8 and TMX-M16, 2 HDMI inputs, 2 stereo audio inputs, supports HDMI1.3/DVI1.0, compatible with DVI, support the highest resolution1920×1080)

Technical Specifications

Output signal 2	2 ×HDMI output signal (compatible with DVI),
	2×03.5 mm earphone analog audio signal
Interface	Type A 19P female
Power consumption	<5 W
Signal types	DVI, HDMI
Bandwidth	6.75 Gpbs
Color depth	<u>8 & 10 & 12 bit</u>
Audio format	PCM
Standard	Supports HDMI1.3 / DVI1.0
Resolution	Supports output formats: up to 1920 ×1080

General specs

Temperature	Operating: 0 °C to + 50 °C;
	storage: -20 °C to + 70 °C
Humidity	Storage and operating: 10% to 90%
Weight	125 g

Ordering Information

TMX-HDMI-2OUT_____Dual-channel HDMI Output Card(for TMX-M8 and TMX-M16, 2 HDMI outputs, 2 stereo audio outputs, supports HDMI1.3/DVI1.0, compatible with DVI, support the highest resolution 1920×1080)

TMX-4KHDMI-2IN 2 Channels 4K HDMI Input Card



Features

- 4K Seamless HDMI Input Module
- Dual Ø 3.5mm earphone jack for analog audio input
- Dual HDMI Type A 19P Female input ports, supports HDMI2.0/DVI1.0
- The maximum resolution is 4K 444@60Hz
- Signal bandwidth: 18 Gpbs
- Audio format: PCM
- Enable to select embedded audio in HDMI or external Ø3.5mm earphone input.

TMX-4KHDMI-2OUT 2 Channels 4K HDMI Output Card



Features

- 4K Seamless HDMI Output Module
- Dual Ø 3.5mm earphone jack for analog audio output
- Dual HDMI Type A 19P Female input ports, supports HDMI2.0/DVI1.0
- The maximum resolution is 4K 444@60Hz
- Signal bandwidth: 18Gpbs
- Audio format: PCM

Technical Specifications

Input signal	2 ×HDMI input signal (compatible with DVI),
	2 ר 3.5mm earphone analog audio signal
Interface	Type A 19P female
Power consumption	<5 W
Signal types	DVI, HDMI
Bandwidth	18 Gpbs
Audio format	PCM
Standard	Supports HDMI2.0 / DVI1.0
Resolution	Supports input formats: up to 4K 444@60Hz

General specs

Temperature	Operating: 0 °C to + 50 °C;
	storage: -20 °C to + 70 °C
Humidity	_Storage and operating: 10% to 90%
Weight	125 g

Ordering Information

TMX-4KHDMI-2IN	Dual-channel 4K HDMI Input
	Card(for TMX-M8 and TMX-M16,2
	HDMI inputs, 2 stereo audio inputs,
	support HDMI2.0 and DVI1.0,
	compatible with DVI signals,
	support the highest resolution
	HDMI 2.0 4K 444@60Hz)

Technical Specifications

Output signal	2 ×HDMI output signal (compatible with DVI),
	2 ר 3.5mm earphone analog audio signal
Interface	Type A 19P female
Power consumption	<5 W
Signal types	DVI, HDMI
Bandwidth	18 Gpbs
Audio format	PCM
Standard	Supports HDMI2.0 / DVI1.0
Resolution	Supports output formats: up to 4K 444@60Hz

General specs

Temperature	Operating: 0 °C to + 50 °C;
	storage: -20 °C to + 70 °C
Humidity	Storage and operating: 10% to 90%
Weight	125 g

TMX-4KHDMI-2OUT	Dual-channel 4K HDMI Output
	Card(for TMX-M8 and
	TMX-M16, 2 HDMI outputs, 2
	stereo audio outputs, support
	HDMI2.0 and DVI1.0,
	compatible with DVI signals,
	support the highest resolution
	HDMI 2.0 4K 444@60Hz)

TMX-1616MX 16×16 Mixed Card Matrix Switcher Frame



Features

- High-performance AV professional switcher
- Compatible with manifold signal formats of input/output signal cards for cross switching
- Offers separate audio and video input/output ports
- Combined with different signal cards to resolve integrative audiovisual resolution
- Seamless switching
- Supports manifold signal input/output cards, such as HDMI, DVI, VGA, SDI, etc.
- Widely used in the place of radio & television engineering, multimedia conference hall, large screen display engineering, TV teaching and leadership office
- Power failure protection function
- With RS232 interface which can be expediently connected to PC, remote control system and other remote control devices
- Two RS-422 control ports with built-in professional camera control protocols, a variety of professional cameras like TAIDEN HCS-3316HDB, SONY, PELCO and Panasonic can be controlled
- Ethernet interface for communicating with PC under TCP/IP protocol to realize remote controlling; furthermore, it enables remote controlling by wireless touch panel through central control system
- Power-off protection for scene status
- LCD to display real-time operation
- Front panel button control , easy to switch manually
- Two power cable interfaces, one is back-up for another
- 3U high, full rack width

Technical Specifications

Control

COM (RS-232)	RS-232, 9 pin female D connector
RJ45	TCP/IP
RS422/RS485	Invalidation
Signal cards	4 input signal cards,
	4 output signal cards
Resolution	Max. 1920×1200@60 Hz, compliant with
	VESA and HDTV normal standards

General specs

Power supply	AC 100 V - 240 V, 50 Hz / 60 Hz
Temperature	Operating: 0 °C to + 50 °C;
	storage: -20 °C to + 70 °C
Humidity	Storage and operating: 10% to 90%
Dimensions h × w ×d (mm)	132 × 478 × 310
	(3U high, full rack width)
Weight	5.9 kg
Color	Gray (PANTONE 425 C)
Mean time between failures	30,000 hours

Ordering Information

TMX-1616MX_____16×16 Mixed Card Matrix Switch Frame

TMX-0808MX 8×8 Mixed Card Matrix Switcher Frame



Features

- High-performance AV professional switcher
- Compatible with manifold signal formats of input/output signal cards for cross switching
- Offers separate audio and video input/output ports
- Combined with different signal cards to resolve integrative audiovisual resolution
- Seamless switching
- Supports manifold signal input/output cards, such as HDMI, DVI, VGA, SDI, etc.
- Widely used in the place of radio & television engineering, multimedia conference hall, large screen display engineering, TV teaching and leadership office
- Power failure protection function
- With RS232 interface which can be expediently connected to PC, remote control system and other remote control devices
- RS-422 control ports with built-in professional camera control protocols, a variety of professional cameras like TAIDEN HCS-3316HDB, SONY, PELCO and Panasonic can be controlled
- Ethernet interface for communicating with PC under TCP/IP protocol to realize remote controlling; furthermore, it enables remote controlling by wireless touch panel through central control system
- Power-off protection for scene status
- LCD to display real-time operation
- Front panel button control, easy to switch manually
- 2U high, full rack width

Technical Specifications

Control

COM (RS-232)		RS-232, 9 pin female D connector
RJ45		TCP/IP
RS422/RS485		Invalidation
Signal cards		4 input signal cards,
		4 output signal cards
Resolution	Max.	1920×1200@60 Hz, compliant with
		VESA and HDTV normal standards

General specs

Power supply	AC 100 V - 240 V, 50 Hz / 60 Hz
Temperature	Operating: 0 °C to + 50 °C;
	storage: -20 °C to + 70 °C
Humidity	_Storage and operating: 10% to 90%
Dimensions h × w ×d (mm)	88 × 478 × 310
	(2U high, full rack width)
Weight	5.9 kg
Color	Gray (PANTONE 425 C)
Mean time between failures	30,000 hours

Ordering Information

TMX-0808MX 8×8 Mixed Card Matrix Switch Frame

TMX-HDMI-4IN 4 Channels HDMI Input Card



Features

- Seamless input signal card
- Support HDMI1.3 and HDCP1.4, compatible with DVI signal
- The maximum resolution is 1080P@60Hz
- Audio input mode (built-in HDMI audio or extend analog audio) can be selected via input control code, the default is built-in HDMI audio

Technical Specifications

Input signal	4 ×HDMI input signal (compatible
	with DVI), 4 \times analog audio signal
Interface	Type A 19P female
Power consumption	7.1 W
Color depth	8 & 10 & 12 bit
Signal types	DVI, HDMI
Bandwidth	6.75 Gpbs
Audio format	PCM
	Supporting HDMI1.3
EDID manage	Supporting EDID learning function
Weight	0.2 kg

Ordering Information

TMX-HMDI-4IN	4 Channels HDMI Input Ca
	HDMI1.3 and HDCP, comp
	DVI signal, build-in upscal

4 Channels HDMI Input Card (support HDMI1.3 and HDCP, compatible with DVI signal, build-in upscaling function)

TMX-DVI-4IN 4 Channels DVI Input Card



Features

- Seamless input signal card (only support HD signal)
- Compatible with HDMI1.3 and HDCP1.4
- Support manifold signal formats, include DVI、HDMI、VGA、 YPbPr and C-VIDEO
- Automatic identification input signal format without manual setting
- With embedded EDID manage technology, supporting DDC control

Technical Specifications

Input signal	4 ×DVI input signal
	Female DB24+5
	T.M.D.S 2.9V~3.3V
	75 Ω
	0 dB
	Max. 200 ns
	Max. 5 ns (±1 ns)
Video signal	DVI, HDMI, VGA, C-VIDEO, YPbPr
Bandwidth	340MHz(10.2Gbit/s)
Crosstalk	<-50 dB@5 MHz
_	8 bit
Audio output format	PCM
Audio sampling rate	32/ 44.1/ 48/ 88.2/ 96/ 176.4/ 192 K
EDID and DDC manage	Supporting EDID and DDC,
	used DVI and HDMI standard
HDCP manage	Supporting HDCP,
	used DVIand HDMI1.3 standard
Weight	0.2 kg

Ordering Information

TMX-DVI-4IN_____4 Channels DVI-I Input Card (build-in upscaling function)

Features

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TMX-SDI-4IN 4 Channels SDI Input Card



Every channel of input signal card with a SDI loop-output

Build-in upscaling function, and can convert low input

TMX-VGA-4IN 4 Channels VGA Input Card



Features

- Seamless input signal card
- Build-in upscaling function, and can convert into 1080P or 1920x1200 output
- Signal type can be set manually: VGA (RGBHV), YPbPr, S-VIDEO, C-VIDEO
- The input signal card can extend 4 stereo audio inputs which can be set to be on/off via control code, the default is off

Technical Specifications

Seamless input signal card

signal into 1080P output

Supporting SDI, HD-SDI, 3G-SDI

Input signal4	\times SDI signal with a SDI looping out
Interface	BNC connector
Level	T.M.D.S 2.9 V - 3.3 V
Impedance	75 Ω
Video signal	SDI, HD-SDI, 3G-SDI
Color depth	8 & 10 & 12 bit
Distance	1080P≤100 m (excellent line)
Bandwidth	6.75 Gpbs
Resolution	Max. 1080P@60Hz
Weight	0.2 kg

Ordering Information

TMX-SDI-4IN	4 Channels SDI Input Card (SDI
	input/loop-output conpatible with
	3G-SDI/HD-SDI, build-in
	upscaling function)

Technical Specifications

Video

Input signal	4 ×VGA input signal
Coupling input	AC
Interface	15-pin female D connector
Level	0.5 - 2.0 Vp-p s
Impedance	75 Ω

Audio

Input signal	4 × analog audio
Interface	3-pin Phoenix
Frequency respones	<u>2</u> 0 - 20 kHz
Input impedance	
Impedance	75 Ω

Normal

Gain	0 dB
Switching spe	edMax. 200 ns
Video signal	VGA(RGBHV), YpbPr, S-VIDEO, C-VIDEO
Bandwidth	YPbPr: 170MHz, C-VIDEO: 150MHz, VGA: 170MHz
Crosstalk	<-50 dB@5 MHz
Weight	0.2 kg

TMX-VGA-4IN	4 Channels VGA Input Card
	(compatible with VGA, YUV, YC,
	CVBS via converter cables,
	phoenix for left & right channel
	audio input, build-in upscaling
	function)

TMX-HDMI-4OUT 4 Channels HDMI Output Card



Features

- Seamless output signal card
- Support HDMI1.3 and HDCP1.4, compatible with DVI signal
- The maximum resolution is 1080P@60Hz
- Analog audio output can be set to be on/off via control code, the default is off

Technical Specifications

Input signal	4 ×HDMI signal (compatible
	with DVI), 4 $ imes$ analog audio signal
Interface	Type A 19P female
Power consumption	7.9 W
Color depth	8 bit
Signal types	DVI, HDMI
Bandwidth	6.75 Gpbs
Audio format	PCM
Standard	Supporting HDMI1.3
EDID manage	Supporting EDID learning function
Weight	0.2 kg

Ordering Information

TMX-HMDI-4OUT	4 Channels HDMI Output Card
	(support HDMI1.3 and HDCP, 4
	analog audio output (unbalance
	stereo), seamless switching)

TMX-DVI-4OUT 4 Channels DVI Output Card



Features

- Seamless output signal card (only support HD signal)
- Compatible with HDMI1.3 and HDCP1.4
- Support manifold signal formats, include DVI、HDMI、VGA、 YPbPr and C-VIDEO
- The output signal format can be set via code
- With embedded EDID manage technology, supporting DDC control

Technical Specifications

Output signal	4 ×DVI output signal
	Female DB24+5
Level	T.M.D.S 2.9V~3.3V
	75 Ω
Gain	0 dB
Switching speed	Max. 200 ns
Delay	Max. 5 ns (±1 ns)
Video signal	DVI, HDMI, VGA, C-VIDEO, YPbPr
Bandwidth	340MHz(10.2Gbit/s)
Crosstalk	<-50 dB@5 MHz
	8 bit
Audio output format	PCM
Audio sampling rate	32/ 44.1/ 48/ 88.2/ 96/ 176.4/ 192 K
EDID and DDC manage	Supporting EDID and DDC,
	used DVI and HDMI standard
HDCP manage	Supporting HDCP,
	used DVIand HDMI1.3 standard
Weight	0.2 kg

TMX-DVI-4OUT	4 Channels DVI-I Output Card
	(support HDCP, 4 analog audio output
	(unbalance stereo), seamless
	switching)

TMX-SDI-4OUT 4 Channels SDI Output Card



TMX-VGA-4OUT 4 Channels VGA Output Card



Features

- Seamless outnput signal card
- Every channel of output signal card with a SDI loop-output
- Supporting SDI, HD-SDI, 3G-SDI
- The transmission distance of SDI output signal (1080P) can up to 70-100 m via coaxial cable

Technical Specifications

Ordering Information

TMX-SDI-4OUT 4 Channels SDI Output Card (SDI input/loop-output conpatible with 3G-SDI/HD-SDI, seamless switching)

Features

- Seamless outnput signal card
- Signal type can be set manually: VGA (RGBHV), YPbPr, S-VIDEO, C-VIDEO
- Supports embedded audio which is synchronous of video signal, namely, the embedded audio could not be transmitted without video

Video

Output signal	4 ×VGA output signal
Switching type	Vertical spacing
Interface	15-pin female D connector
Level	0.5 - 2.0 Vp-p s
Impedance	75 Ω

Audio

Input signal	_4	× analog audio
Interface		3-pin Phoenix
Frequency respones		
Impedance		75 Ω

Normal

Gain	0 dB
Switching spe	edMax. 200 ns
Video signal	VGA(RGBHV), YpbPr, S-VIDEO, C-VIDEO
Bandwidth	YPbPr: 170MHz, C-VIDEO: 150MHz, VGA: 170MHz
Crosstalk	<-50 dB@5 MHz
Weight	0.2 kg

TMX-VGA-4OUT	4 Channels VGA Output Card (4
	analog audio output (unbalance
	stereo), seamless switching)

TMX-0808DVI 8×8 DVI Matrix Switcher



Features

- Routing: 8 × 8 DVI matrix switcher
- Video interface: DVI-I connectors (compatible with DVI-D)
- Max. data rates: 2.25 Gbps
- Supporting all resolutions from 480p to 1080p and WUXGA (1920×1200)
- Supporting video and DDC switching
- Input equalization adjustment for long cables
- Output pre-emphasize adjustment
- LCD to display real-time operation
- Front panel button control , easy to switch manually
- Scene save and recall function
- Each output interface can supply up to +5 V DC/200 mA
- 3U high, full rack width

Technical Specifications

Video

Max. data rate	2.25 Gbps
Resolution	Up to HDTV (1080p) or 1920×1200 @ 60 Hz

Video input

Signal type	TMDS
Connectors	8 × DVI-I connector
Equalization	Automatic, max. 12 dB

Video output

Signal type	TMDS
	8 × DVI-I connector
	0 dB, 6 dB

Control

COM (RS232)	9-pin female D connectors,
	2 = TX, 3 = RX, 5 = GND
COM1	Baudrate: 9600, data: 8 bits, stop: 1 bit, no parity
COM2V	ariable baudrate, data: 8 bits, stop: 1 bit, no parity
Ethernet	RJ45 socket, Cat.5 crossover cable
Ethernet protocol	TCP/IP
Ethernet speed	10 M/100 M, full-duplex or
	half-duplex with autodetect
PC control	Matrix switcher

General specs

Power supply	AC 100 V - 240 V, 50 Hz / 60 Hz
Temperature	Operating: 0 °C to + 50 °C;
	storage: -20 °C to + 70 °C
Humidity	Storage and operating: 10% to 90%
Dimensions h × w ×d (mm)	132 × 478 × 310
	(3U high, full rack width)
Color	Gray (PANTONE 425 C)
Weight	4.5 kg

TMX-0808DVI	8x8 DVI Matrix Switcher, 2.25 Gbps,
	DVI-I Connectors

HCS-4112M/29 1×29 Broadcast Quality Audio Distributor



Features

- Routing: 1×29 Broadcast Quality Audio Distributor
- Audio interface: 3 core XLR balanced
- 1 input channel, 29 adjustable gain output channels
- Audio monitoring facility
- Each output with a built-in independent earth isolated set (adopt 29 isolated transformers), making it completely isolated from interference between input and output signals, and eliminate the interference from power supply system and earth wire

HCS-4112M/29 is a professional audio distributor with excellent capability. Each output is equipped with a gain adjust knob and a built-in independent earth isolated set. This broadcast standard audio distributor with earthing isolation feature is mainly used for high quality multi-way audio distribution.

Controls and Indicators

- Power indicator
- 5 signal indicators
- 29 gain control knobs of audio outputs
- Monitor volume control knob

Interconnections

- 1 XLR-F connector for audio input to connect balanced audio signal
- 1 XLR-M connector for connection with the audio input of the next HCS-4112M/29
- 29 XLR-M connectors for distributing the audio signal of the conference proceedings and the interpretation from interpreters to recording devices
- 1 XLR-F connector for monitoring audio input
- Ø 3.5 mm jack for stereo monitor earphone

Technical Specifications

Electrical

Gain	- ∞ ~ +10 dB / adjustable
Frequency response	20 Hz to 20 kHz (+0/-1 dB)
SNR	>106 dB
THD	<0.02%
	100 V AC to 240 V AC, 50/60 Hz,

Audio Input

Connector	1	XLR-F	balanced
Max. input			+6 dBV

Audio output

Connectors	29 XLR-M balanced
Max. output	+16 dBV

General specs

Temperature	Operating: 0 °C to + 50 °C;	
	storage: -20 °C to + 70 °C	
Humidity	Storage and operating: 10% to 90%	
Dimensions h × w ×d (mm)	70 × 483 × 222	
Weight	2.8 kg	

Ordering Information

HCS-4112M/29 1x29 Broadcast Standard Audio Distributor

(3-pin XLR input/output connectors, adjustable gain output, built-in earth isolated set)

HCS-4112M/10 1×10 Broadcast Quality Audio Distributor



Features

- Routing: 1×10 Broadcast Quality Audio Distributor
- Audio interface: 3 core XLR balanced
- 1 input channel, 10 adjustable gain output channels (with audio monitor)
- Each output with a built-in independent earth isolated set (10 isolating transformers used), making it completely isolated from interference between input and output signals, and eliminating interference from power supply system and earth wire

HCS-4112M/10 is a professional audio distributor with excellent capability. Each output is equipped with a gain adjust knob and a built-in independent earth isolated set. This broadcast standard audio distributor with earthing isolation feature is mainly used for high quality multi-way audio distribution.

Controls and Indicators

- Power indicator
- 10 gain control knobs of audio outputs

Interconnections

- 1 XLR-F connector for audio input to connect balanced audio signal
- 1 XLR-M connector for connection with the audio input of the next HCS-4112M/10
- 10 XLR-M connectors for distributing the audio signal of the conference proceedings and the interpretation from interpreters to recording devices
- 1 XLR-F connector for monitoring audio input

Technical Specifications

Electrical

Gain	$-\infty$ ~ +10 dB / adjustable
Frequency response	20 Hz to 20 kHz (+0/-1 dB)
SNR	>106 dB
THD	<0.02%
Power supply	_AC 100 V - 240 V, 50 Hz / 60 Hz

Audio Input

Connector	_1	XLR-F	balanced
Max. input			+6 dBV

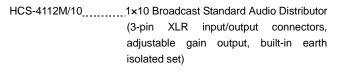
Audio output

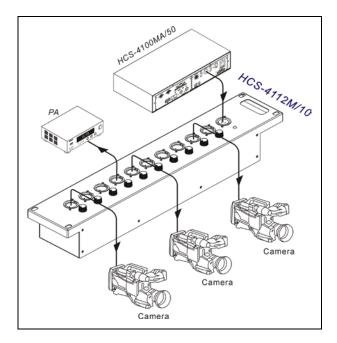
Connectors	10 XLR-M balanced
Max. output	+16 dBV

General specs

Operating: 0 °C to + 50 °C;
storage: -20 °C to + 70 °C
Storage and operating: 10% to 90%
White (PANTONE 420 C)
1.2 kg

Ordering Information





TMX-HDSDI2HDMI/30 3G HD-SDI to HDMI Converter



Features

- Transfers SDI input into HDMI signal as video output, and also into VGA signal at the same time, that is convenient for local monitor
- Mainly cooperates with HCS-3316HDB and SDI series matrix
- Output resolution is adjustable

Technical Specifications

Video

Input_____1 SD/HD-SDI, 3G HD-SDI on a BNC connector Output_____1 SD/HD-SDI, 3G HD-SDI loop on a BNC connector; 1 HDMI connector (unsupports CEC and HDCP), 1 VGA 15-pin HDF connector

Input/output data rate_____1.485 Gb/s and 2.97 Gb/s

Control

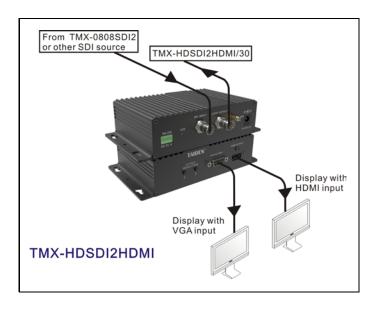
COM (RS-232)	3-pin Phoenix; baudrate: 9600,
	data: 8 bits. stop: 1 bit. no parity

General specs

Power supply	DC 9 V - 12 V, 0.7 A
Power consumption	10 W
Temperature	Operating: 0 °C to + 50 °C;
	storage: -20 °C to + 70 °C
Humidity	_Storage and operating: 10% to 90%
Dimensions h × w ×d (mm)	41 × 168 × 116
Weight	0.4 kg
Color	Black (PANTONE 419 C)

Ordering Information

TMX-HDSDI2HDMI/30_____3G HD-SDI to HDMI Converter



TMX-TP-RD VGA & Audio over Twisted Pair Receiver



Features

- Input connector: 1 RJ45 socket
- Video output connector: 1 VGA 15-pin HDF connector
- Audio output connector: 1 Ø 3.5 mm mini jack
- Independent EQ and Gain adjustment
- Independent RGB delay adjustment: 0~50 ns
- LED indicator for VGA input signal presence

Technical Specifications

Video

Gain0 dB

Video input

Signal type	1 analog RsGsBs/ YPbPr
Connector	1 × RJ45 socket

Video output

Signal type	1 analog RsGsBs/ YPbPr
Connector	1 × VGA 15-pin HDF connector
Nominal level	
Min./max. levels	0.7 V - 1.2 Vp-p
Impedance	75 Ohm
	-30 dB @ 5 MHz
DC offset	<±20 mV with input at 0 offset

Sync

Output type	RGBHV
	4.5 V - 5.0 Vp-p
Output impedance	75 Ohm
Polarity	Positive or negative (follows input)

Audio

Gain	0 dB
Frequency response	20 Hz to 20 kHz, ±0.05 dB
THD+Noise	0.15% @ 1 kHz at normal level
S/N	

Audio input

Signal type	1 set of proprietary analog signal
Connector	1 × RJ45 socket

Audio output

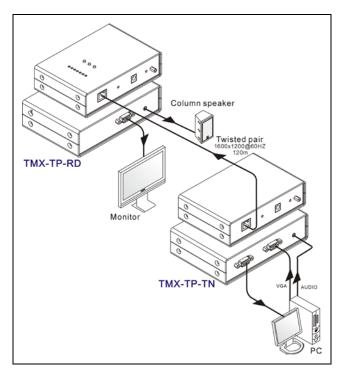
Signal type	1 channel audio (L+R), unbalanced
Connector	1 × Ø 3.5 mm mini jack
Impedance	<10 Ohm (unbalanced)
Gain error	± 0.5 dB

General specs

Power supply	12 V DC
Temperature	Operating: 0 °C to + 50 °C;
	storage: -20 °C to + 70 °C
Humidity	_Storage and operating: 10% to 90%
Dimensions h × w ×d (mm)	40 × 150 × 100
Color	Gray (PANTONE 425 C)
Weight	0.4 kg

Ordering Information

TMX-TP-RD	VGA & Audio over Twisted Pair Receiver
	(independent RGB delay adjustment)



TMX-TP-TN VGA & Audio over Twisted Pair Transmitter



Features

- Video input connector: 1 VGA 15-pin HDF connector
- Audio input connector: 1 Ø 3.5 mm mini jack
- Output connector: 1 RJ45 socket
- Buffered VGA 15-pin HDF local monitor output
- LED indicator for VGA input signal presence

Technical Specifications

Video

Video input

1 analog RGB / YPbPr
1 × VGA 15-pin HDF connector
RGB: 0.7 Vp-p
0.3 V - 1.5 Vp-p
75 Ohm
-30 dB @ 5 MHz
<u>+</u> 20 mV

Video output

Signal type	1 analog RsGsBs / YPbPr
Connectors	1 × RJ45 socket
Nominal level	1.4 Vp-p @ input 0.7 Vp-p
Min./max. level	0.7 V - 1.6 Vp-p
Impedance	Difference 100 Ohm
Return loss	-30 dB @ 5 MHz
DC offset	±20 mV with input at 0 offset

Sync

Input type	RGBHV
Output type	
	<u>3.5</u> V - 5.5 Vp-p
	4.0 V - 5.0 Vp-p
Input impedance	510 Ohm
Output impedance	75 Ohm
Polarity	_Positive or negative (follows input)

General specs

Power supply	12 V DC
Temperature	Operating: 0 °C to + 50 °C;
	storage: -20 °C to + 70 °C
Humidity	Storage and operating: 10% to 90%
Dimensions h × w ×d (mm)	40 × 150 × 100
Color	Gray (PANTONE 425 C)
Weight	0.4 kg

Ordering Information

TMX-TP-TN_____VGA & Audio over Twisted Pair Transmitter

