

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 x w x d (mm) | 132 x 478 x 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

8x8 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. 1920x1200@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 x w x d (mm).....88 x 478 x 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.....8x8 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 × 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 |
| Standard | Supporting HDMI1.3 |
| EDID manage | Supporting EDID learning function |
| Weight | 0.2 kg |

Ordering Information

| | |
|--------------|--|
| TMX-HMDI-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 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

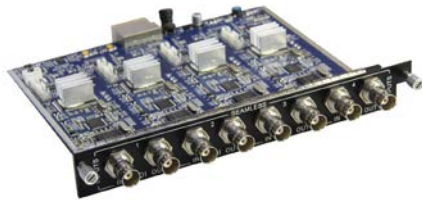
Technical Specifications

| | |
|---------------------|---|
| Input signal | 4 × DVI input signal |
| Interface | Female DB24+5 |
| Level | T.M.D.S 2.9V~3.3V |
| Impedance | 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 |
| Data types | 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 DVI and HDMI1.3 standard |
| Weight | 0.2 kg |

Ordering Information

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

TMX-SDI-4IN 4 Channels SDI Input Card



Features

- Seamless input signal card
- Every channel of input signal card with a SDI loop-output
- Supporting SDI, HD-SDI, 3G-SDI
- Build-in upscaling function, and can convert low input signal into 1080P output

Technical Specifications

Input signal 4 × 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 compatible with 3G-SDI/HD-SDI, build-in upscaling function)

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

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 responses 20 - 20 kHz
 Input impedance >10 kΩ
 Impedance 75 Ω

Normal

Gain 0 dB
 Switching speed Max. 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

Ordering Information

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 × 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 |
| Interface | Female DB24+5 |
| Level | T.M.D.S 2.9V~3.3V |
| Impedance | 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 |
| Data types | 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 DVland HDMI1.3 standard |
| Weight | 0.2 kg |

Ordering Information

| | |
|--------------------|---|
| 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



Features

- Seamless output 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

Input signal 4 × 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-4OUT 4 Channels SDI Output Card
 (SDI input/loop-output compatible
 with 3G-SDI/HD-SDI, seamless
 switching)

TMX-VGA-4OUT 4 Channels VGA Output Card



Features

- Seamless output 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 responses 20 - 20 kHz
 Impedance 75 Ω

Normal

Gain 0 dB
 Switching speed Max. 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

Ordering Information

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