

Switch SDI video from many video sources among multiple displays.

- Configure and control the switch through Ethernet, serial port, or front panel buttons.
- Supports SMPTE 259 M (850 feet), SMPTE 292 M (958 feet), SMPTE 424 M (1,391 feet) video interfaces used for broadcast-grade video.
 - SMPTE 259 M (850 feet): SD-SDI (Standard-Definition Serial Digital Interface), supports 480i, 576i resolutions at 270 Mbps bitrate.
 - SMPTE 292 M (958 feet): HD-SDI (High-Definition Serial Digital Interface), supports 720p, 1080i resolutions at 1.485 Gbps bitrate.
 - SMPTE 424 M (1,391 feet): 3G-SDI (3 Gbit/s Serial Digital Interface), supports 1080p resolution at 2.97 Gbps bitrate.
- Supports SDI/HD-SDI/3G-SDI digital video signals in synchronous or asynchronous switching.
- Supports HDTV resolutions up to 1080p.
- Supports embedded audio through SDI-compatible displays or audio receivers.
- Each input can be independently connected to any or all outputs.
- With professional SDI cabling, extend 3G-SDI to 459 feet (140 meters), HD-SDI to 656 feet (200 meters), and SD-SDI (standard-definition serial digital interface) to 1,312 feet (400 meters).
- Intelligent power management and internal case temperature detection allow the unit to operate much more reliably.
- Internal memory allows frequently used matrix switch configurations to be recalled easily.
- Supports clock recovery and automatic equalization for compatibility with HDTVs.



VEEMUX® SM-8X8-SDI (Front & Back)

- **SDI/HD-SDI/3G-SDI**
- **Data Rates: 19 Mbps to 2.97 Gbps**
- **1080p Video Resolution**

The VEEMUX® SDI/HD-SDI/3G-SDI Video Matrix Switch routes broadcast quality high definition video from up to 16 SDI digital video sources to up to 16 displays.

Specifications

Video Input

- Female BNC connectors.
- Impedance: 75 Ohms
- Return Loss: <-15 dB, DC @ 1 MHz to 1.5 GHz
- Video Interfaces: SMPTE 259 M (850 feet), SMPTE 292 M (958 feet) and SMPTE 424 M. (1,391 feet)
- Video Formats: 270 Mbps SDI, 1.485 Gbps HD-SDI, and 2.97 Gbps 3G-SDI.

Video Output

- Female BNC connectors.
- Impedance: 75 Ohms
- Return Loss: <-15 dB, DC @ 1 MHz to 1.5 GHz
- Video Interfaces: SMPTE 259 M (850 feet), SMPTE 292 M (958 feet) and SMPTE 424 M. (1,391 feet)
- Video Formats: 270 Mbps SDI, 1.485 Gbps HD-SDI, and 2.97 Gbps 3G-SDI.

Power

- 100 to 240 VAC at 50 or 60 Hz via IEC connector. (Country-specific power supply cable included.)

Cables

- Interface cables between the video sources and the switch are required for proper operation.
- RG-6 18 AWG solid 75 Ohm coaxial cable terminated with BNC connectors are recommended for use (Such as Belden 1694A).
- Cables not included.

MTBF

- 30,000 hrs.

Dimensions

- 8x8 switch WxDxH: 19.01x10.24x1.75 in (483x260x44 mm)
- 16x16 switch WxDxH: 19.02x10.24x3.5 in (483x260x89 mm)

Environmental

- Operating and Storage temperature: -4 to 158°F (-20 to 70°C).
- Operating and Storage Relative Humidity: 10 to 90% non-condensing RH.

Warranty

- Two years

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Control Methods

Ethernet Control

- Configuration can be done over the Internet via Control Program.
- Female RJ45 connector.
- Adaptive 10/100 BaseT Ethernet interface.

Front Panel Interface

- Configuration and control can be done using the front panel buttons.
- Liquid Crystal Display (LCD) displays operational information.

RS232 Control

- Configuration and control can be done through the serial port.
- Control the switch using the Matrix Control Program via RS232.

SDI/HD-SDI/3G-SDI Video Matrix Switch Models

| NTI Part # | Video Inputs | Video Outputs |
|--------------|--------------|---------------|
| SM-8X8-SDI | 8 | 8 |
| SM-16X16-SDI | 16 | 16 |