HDMI/DVI A/V Matrix Switch via CATx
VEEMUX®

Route and distribute HDMI/DVI video and audio up to 600 feet (183 meters) using CATx

- Configure and control the switch through Ethernet, serial port (USB or RS232), front panel buttons, or Infrared remote control.
- Matrix Control Software with Graphical User Interface is included.
- Supports HDTV resolutions to 1080p and computer resolutions to 1920x1200 (WUXGA).
- Video quality adjustment is done automatically at every connection change.
- Each output provides one video signal and one stereo audio signal.
- Each input can be independently connected to any or all outputs with no image degradation.
- No loss of audio or video quality between the transmitters and receivers.
- HDCP compliant.
- EDID learning for the support of any EDID compatible display device.
- Supplies power to both the local and remote units – no additional power supplies required.
- HDMI and DVI transmitters and receivers can be supported on the same VEEMUX unit.
  - The transmitter can be extended up to 300 feet (91 meters) and the receiver can be extended up to 300 feet (91 meters), for a total of 600 feet (183 meters) between the transmitters and receivers.
  - The transmitters with stereo audio support are not compatible with the receivers without stereo audio, and vice versa.

VEEMUX® SM-8X8-C6HD (Front and Back)

The VEEMUX® HDMI/DVI A/V Matrix Switch routes audio and video inputs from eight HDMI/DVI video sources to eight displays (projectors, monitors, etc.) and speakers via inexpensive CAT5e/6/7 cable. It is capable of connecting to as many as eight HDMI/DVI video sources via transmitters and eight video displays via receivers with a maximum extension of 600 feet (183 meters) between the transmitters and receivers.

Designed and Manufactured in the USA

Specifications

Audio/Video Input/Output

- Female RJ45 input/output connectors for connecting transmitters and receivers.
- Compatible transmitters and receivers:
  - HDMI Extenders
    - Supports HDTV resolutions to 1080p and computer resolutions to 1920x1200 (WUXGA).
    - Available options: IR, stereo audio, IR + stereo audio.
  - DVI Extenders
    - Supports HDTV resolutions to 1080p and computer resolutions to 1920x1200 (WUXGA).
    - Available options: IR, stereo audio, IR + stereo audio.
  - ST-C6HD-300/ST-C6HD-IR-300/ST-C6DVI-300/ST-C6DVI-IR-300 transmitters and receivers will work together.
  - ST-C6HD-A-300/ST-C6HD-AIR-300/ST-C6DVIA-300/ST-C6DVIA-IR-300 transmitters and receivers will work together.

Protocols

- HTTP, HTTPS
- TCP/IP, DHCP, UDP, ARP
- IPV4, IPV6

Power

- 110 or 220 VAC at 50 or 60 Hz via IEC connector. (Country-specific power supply cable included.)
- Supplies power to both the local and remote units – no additional power supplies required.

Dimensions

- WxDxH:
  - Without supplied rackmount kit - 17.51x11.81x1.75 in. (445x300x45 mm)
  - With supplied rackmount kit - 19x11.81x1.75 in. (483x300x45 mm)

Environmental

- Operating temperature: 32°F to 100°F (0°C to 38°C).
- Storage temperature: -22°F to 140°F (-30°C to 60°C).
- Operating/storage relative humidity: 17 to 90% non-condensing RH.

Regulatory Approvals

- CE, RoHS

Warranty

- Two years

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Control Methods

Front Panel Interface

- Configuration and control can be done using the front panel buttons.
- Liquid Crystal Display (LCD) can display all current connections.

RS232 Control

- Configuration and control can be done through the serial port.
  - Female RJ45 connector or female USB Type B connector.
- Control the switch using the NTI Switch Control Program with Graphical User Interface (GUI control) via RS232.
- Selectable baud rate: 4800 through 115200.
  - Baud rate is set via the main menu, serial command, telnet or web page.

IR Remote Control (Optional)

- Control can be done through the IR remote control.
- Transmitter can be up to 30 feet (9.1 meters) away.
- Control up to 15 switches with one remote.
- Power: Two AAA batteries (included).
- Part #: IRT-UNV

Ethernet

- Configuration can be done over the Internet via web page or telnet.
- Female RJ45 connector.
- 10/100 BaseT Ethernet interface.

Web Server

- Security is ensured by password and user configurable timeout.
- Up to 25 users can access the web page at one time.
- The user can access the following pages:
  - Switch page: allows the user to connect any input to any output, save and recall up to ten connections.
  - Administration pages: administrator can access pages for system configuration, network configuration, naming video inputs/outputs, scanning sequence, DDC options, changing password, and updating firmware.
  - Standby Mode page: allows the user to quickly place the switch in standby mode.
  - Support page: provides links to the product manual and firmware downloads webpage.
  - Reboot page: allows the user to quickly reboot the switch.

Telnet

- Security is ensured by password.
- The telnet server listens on ports 2000 and 2005.
  - The telnet server listens on ports 2000 and 2005.
  - Port 2005 is intended for a software control type session.

Cables

- Use HD-xx-MM cable to connect an HDMI source or display to the HDMI transmitter or receiver.
- Use DVI-IS-xx-MM cable to connect a DVI source or display to the DVI transmitter or receiver.
- Use CAT5e/6/7 straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors.
- Includes one female DB9 to female RJ45 adapter, one 5-foot CAT5 patch cable, and one 1-meter male USB Type A to male USB Type B cable.

CATx HDMI/DVI A/V Matrix Switch Models

NTI Part #	# of Inputs	# of Outputs
SM-8X8-C6HD	8	8

HDMI/DVI Transmitters and Receivers

Supported Features	NTI Part # Transmitters	NTI Part # Receivers
HDMI	ST-C6HD-L-300	ST-C6HD-R-300
HDMI + IR	ST-C6HD-IR-L-300	ST-C6HD-IR-R-300
DVI	ST-C6DVI-L-300	ST-C6DVI-R-300
DVI + IR	ST-C6DVI-IR-L-300	ST-C6DVI-IR-R-300

HDMI/DVI Transmitters and Receivers w/ Stereo Audio

Supported Features	NTI Part # Transmitters	NTI Part # Receivers
HDMI + Stereo Audio	ST-C6HD-A-L-300	ST-C6HD-A-R-300
HDMI + IR + Stereo Audio	ST-C6HD-AIR-L-300	ST-C6HD-AIR-R-300
DVI + Stereo Audio	ST-C6DVIA-L-300	ST-C6DVIA-R-300
DVI + IR + Stereo Audio	ST-C6DVIA-IR-L-300	ST-C6DVIA-IR-R-300