DVI MATRIX SWITCH VIA CATX OR FIBER

Extend DVI video up to 450 feet using CATx cable, 1,300 feet using multimode fiber cable, and 32,750 feet using singlemode fiber cable.

Customized SM-UXC-DVI (Front & Back) with six SM-C58-UXCDVI CATx Input/Output Modules and optional redundant power supply

Features and Applications

The VEEMUX® DVI Matrix Switch routes audio and video inputs from many video sources to multiple displays (projectors, monitors, etc.) and speakers via CAT5/5e/6 UTP cable, multimode fiber optic cable, or singlemode fiber optic cable. It is capable of connecting to as many as 32 video displays via transmitters and 16 video sources via receivers with a maximum extension of 450 feet using CATx UTP cable, 1,300 feet using 50µm multimode fiber optic cable, 650 feet using 62.5µm multimode fiber optic cable, and 32,750 feet using 9µm singlemode fiber optic cable.

The SM-UXC-DVI supports crosspoint switching and matrix switching, and is customizable to any extension configuration of up to 16 inputs and 32 outputs.

- Configure and control the switch through Ethernet, Telnet, serial port, or IR Remote Control.
- Versatile switching options make the SM-UXC-DVI an ideal solution for a wide range of applications including control rooms, digital signage, conference rooms, and classrooms.
- Modular design for easy configuration for fiber optic or CATx cabling.
- Combine CATx, multimode fiber optic, and singlemode fiber optic input and output ports in the same 2RU case.
- The Input and Output modules are identical, the mounting position within the switch determines the function of the module.
- Use as a Crosspoint Switch with a maximum of 32 inputs and 16 outputs.
- Signals coming from up to 32 DVI sources can be switched in turn to a single display.
- Supports resolutions up to 1920x1200.
- The SM-UXC-DVI base unit is equipped with a motherboard, circuit board, display panel, and power supply. Input/Output modules, transmitters, and receivers are required for a functioning system.
- Each input can be independently connected to any or all outputs with no image degradation.
- Full matrix control for control and diagnostics.
- No loss of audio or video quality between the local and remote units.
- Supports “follow-me” mode to allow user to setup other displays to follow on-screen images when active or switched.
- A signal converter is required to switch connections via CATx cable to connections via fiber optic cable.

Specifications

Connectors

- Female USB Type B connector.
- Female RJ12 serial connector.
- Female RJ45 1000BASE-T Ethernet connector for network interface.
- Slot for IR Remote Control.
- Configure the switch with any combination of the following input/output modules:
  - Groups of eight pre-configured modules:
    - Eight RJ45 input/output connectors.
    - Eight LC duplex multimode input/output connectors.
    - Eight LC duplex singlemode input/output connectors.
  - Empty user-configured module with eight slots for single gigabit interface converter (GBIC) modules.
    - Single RJ45 CATx GBIC input/output connector.
    - Single LC duplex multimode GBIC input/output connector.
    - Single LC duplex singlemode GBIC input/output connector.

Power

- 90 to 240 VAC at 50 or 60 Hz via IDC connector.

Environmental

- Operating temperature: 41°F to 113°F (5°C to 45°C).
- Storage temperature: -13°F to 140°F (-25°C to 60°C).
- Operating and Storage Relative Humidity: max 80% non-condensing RH.

Regulatory Approvals

- CE, RoHS

Package Includes:

- IR Remote Control.
- AC Power adapter.
- 6-foot USB Type A to Type B cable.

Warranty

- Two years

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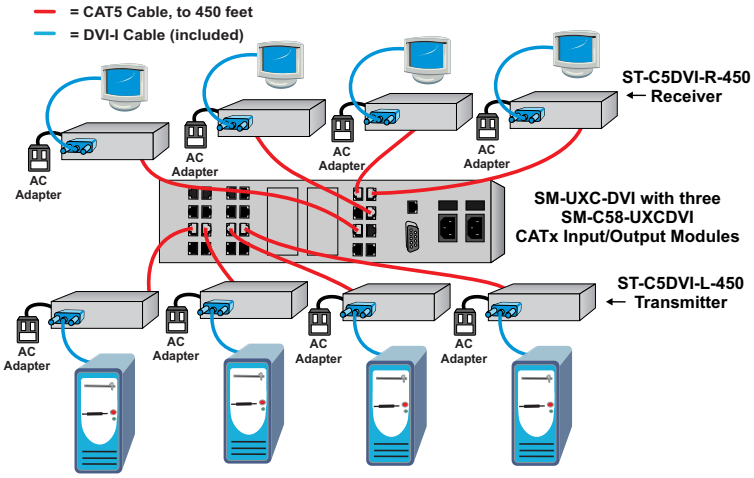
Configuration and Cable Illustration



Control Methods

Ethernet Control

- Configuration can be done over the Internet via web page or telnet.
- 1000BASE-T Ethernet interface.

RS232 Control

- Configuration and control can be done through the serial port.
- RJ12 serial interface.
- Baud rate: 115200.

Cables

- CATx inputs/outputs: Use CAT5, CAT5e or CAT6 24 AWG UTP straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors (not included).
- Multimode fiber optic inputs/outputs: Use duplex multimode LC 50 or 62.5-micron fiber optic cable (not included).
- Singlemode fiber optic inputs/outputs: Use duplex singlemode LC 9-micron fiber optic cable (not included).

Pre-configured Input/Output Modules

NTI Part #	Supported Features
SM-C58-UXCDVI	CAT5/5e/6 Input/Output Module with Eight RJ45 Connectors
SM-FOM8-UXCDVI	Multimode Fiber Optic Input/Output Module with Eight LC Connectors
SM-FOS8-UXCDVI	Singlemode Fiber Optic Input/Output Module with Eight LC Connectors

Free Configuration Input/Output Modules

NTI Part #	Supported Features
SM-FC8-UXCDVI	Input/Output Module, Empty for Configuration of Eight GBIC Modules
SM-C51-UXCDVI	Single CAT5/5e/6 Input/Output GBIC Module with RJ45 Connector
SM-FOM1-UXCDVI	Single Multimode Fiber Optic Input/Output GBIC Module with LC Connector
SM-FOS1-UXCDVI	Single Singlemode Fiber Optic Input/Output GBIC Module with LC Connector

CATx Transmitters/Receivers

NTI Part #	Supported Features
ST-C5DVI-L-450	CAT5/5e/6 DVI Transmitter
ST-C5DVI-R-450	CAT5/5e/6 DVI Receiver
ST-C5DVIARS-L-450	CAT5/5e/6 DVI + Audio + RS232 Transmitter
ST-C5DVIARS-R-450	CAT5/5e/6 DVI + Audio + RS232 Receiver

Multimode Fiber Optic Transmitters/Receivers

NTI Part #	Supported Features
ST-FOMDVI-L-LC	Multimode Fiber Optic DVI Transmitter
ST-FOMDVI-R-LC	Multimode Fiber Optic DVI Receiver
ST-FOMDVIARS-L-LC	Multimode Fiber Optic DVI + Audio + RS232 Transmitter
ST-FOMDVIARS-R-LC	Multimode Fiber Optic + Audio + RS232 Receiver

Singlemode Fiber Optic Transmitters/Receivers

NTI Part #	Supported Features
ST-FOSDVI-L-LC	Singlemode Fiber Optic DVI Transmitter
ST-FOSDVI-R-LC	Singlemode Fiber Optic DVI Receiver
ST-FOSDVIARS-L-LC	Singlemode Fiber Optic DVI + Audio + RS232 Transmitter
ST-FOSDVIARS-R-LC	Singlemode Fiber Optic + Audio + RS232 Receiver