A/V MATRIX SWITCH WITH DIRECT VGA IN & CAT5 OUT

Switch audio and video from many computers among multiple monitors and speakers

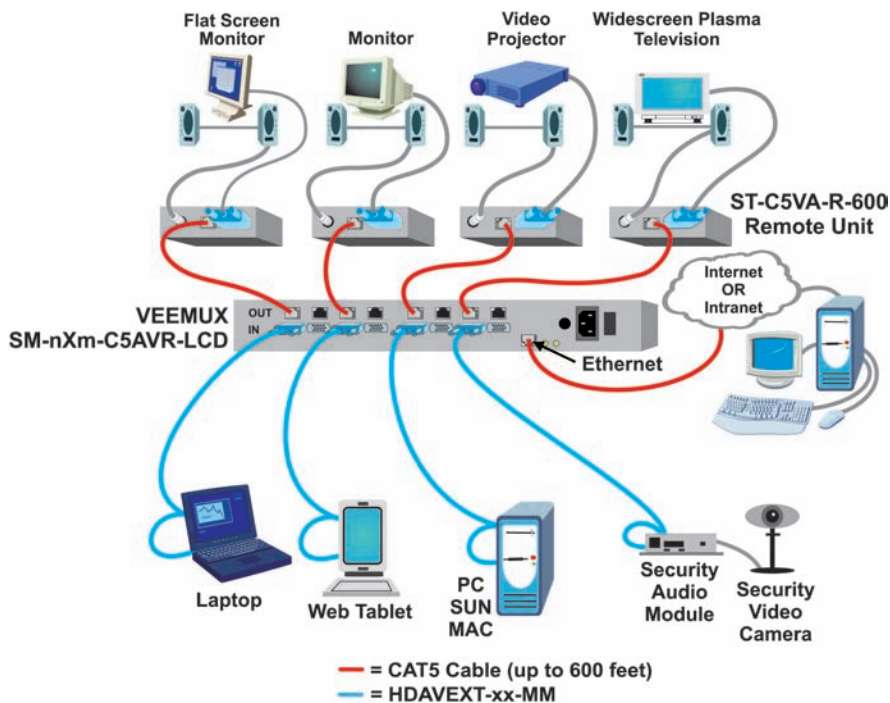**VEEMUX® SM-16X16-C5AVR-LCD (Front & Back)**

Features and Applications

The VEEMUX® Audio/Video Matrix Switch with Direct-Connect VGA Inputs and CAT5 RJ45 Outputs routes audio/video signals from many computers to multiple displays (projectors, LCD/plasma monitors, etc.) and speakers. It is capable of connecting to as many as 16 video sources directly and 16 video displays via receivers with a maximum extension of 600 feet from the switch using CAT5/5e/6 cable.

A single audio/video output can be routed to one or more destinations. Each image will be as crisp and clear as if directly connect to the original source. Buffered video outputs and digital transmission of audio signals ensures integrity is maintained throughout the system.

- Configure and control the switch through Ethernet, serial port or front panel buttons.
- Matrix Control Software with Graphical User Interface (GUI control) is included with the product.
- Supports video resolutions to 1920x1440.
- Each input can be independently connected to any or all outputs.
- Inputs and outputs can be named.

- Each output provides one video signal and one stereo audio signal.
- Video quality adjustment is done automatically at every connection change, or can be forced via the front panel or web interface.
- No loss of audio or video quality between the switch and remote units.
- Cabling runs are simplified with NTI's high density A/V switch cables.

Configuration and Cable Illustration

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A/V MATRIX SWITCH WITH DIRECT VGA IN & CAT5 OUT

Switch audio and video from many computers among multiple monitors and speakers

Specifications

VEEMUX SM-nXm-C5AVR-LCD

- Female 15-pin HD input connectors.
- Female RJ45 output connectors.
- Bandwidth: 175 MHz, fully loaded.
- 10/100BaseT Ethernet interface.
- Supported protocols: HTTP, HTTPS, Telnet
- RS232 interface.

Dimensions

- WxDxH (in): 19x12x3.5

Power

- 110 or 220 VAC at 50 or 60 Hz via IEC connector.

Environmental

- Operating temperature: 32°F to 100°F (0°C to 38°C).
- Storage temperature: -20°F to 140°F (-30°C to 60°C).
- Operating and Storage Relative Humidity: 17 to 90% non-condensing RH.

Regulatory Approvals

- CE, RoHS

Control Methods

- Front panel interface.
- RS232 control.
- Ethernet control.
- GUI control.

Distances and Resolutions for CAT5/CAT5e and CAT6 Cables

Cable	Distance (feet)	Resolution
CAT5/CAT5e Solid UTP	600	1024x768 at 60Hz
	400	1280x1024 at 60Hz
	300	1600x1200 at 60Hz
	100	1920x1440 at 60Hz
CAT5/CAT5e Solid STP, CAT6 Solid UTP	300	1024x768 at 60Hz
	200	1280x1024 at 60Hz
	100	1920x1440 at 60Hz

Cables

- Interface cables between your computers and the switch are required for proper operation.
  - Use VEXT-xx-MM to connect VGA video from the computers to the switch.
  - Use HDAVEXT-xx-MM to connect VGA video and stereo audio from the computers to the switch.
- Use CAT5, CAT5e or CAT6 solid straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors.
- Cables not included.

Remote Unit (Receiver)

Video Output

- Female 15-pin HD connector.
- Supports resolutions up to 1920x1440; refer to the resolution chart on below for resolutions at different lengths.
- Output impedance: 75 Ohms.
- Maximum output level for video: 1.45Vp-p.
- Video quality adjustment for different lengths of CAT5/5e/6 cable is done manually for video-only units and automatically for audio/video units.

Optional Audio

- 3.5mm stereo audio jack.
- Frequency response: 20 Hz to 20 kHz, ±1.5dB.
- Signal-to-Noise Ratio (SNR): >72 dBA.
- Total Harmonic Distortion and Noise (THD+N): <0.06%.
- Stereo crosstalk: -70 dB.
- Maximum output levels: 3.1Vp-p (line level).
- Line level output; supports multimedia speakers.
  - CD quality audio output.

Dimensions

- WxDxH (in): 3.5x3.1x1.2

Power

- 110 or 220 VAC at 50 or 60 Hz via AC adapter.

Environmental

- Operating temperature: 32°F to 100°F (0°C to 38°C)
- Storage temperature: -20°F to 140°F (-30°C to 60°C)
- Operating and Storage Relative Humidity: 17 to 90% non-condensing RH.

Regulatory Approvals

- CE, RoHS
- TAA compliant

Audio/Video Matrix Switch Models

NTI Part #	# of VGA Inputs	# of RJ45 Outputs
SM-8X8-C5AVR-LCD	8	8
SM-8X16-C5AVR-LCD	8	16
SM-16X8-C5AVR-LCD	16	8
SM-16X16-C5AVR-LCD	16	16

Receiver Models

Supported Features	NTI Part #
VGA	ST-C5V-R-600
VGA + Audio	ST-C5VA-R-600