# HDMI Matrix Switch Over HDBase-T with HDMI Inputs & CAT6 Outputs
### VEEMUX®

## Route and distribute HD 1080p, Multi-channel Audio, Ethernet, and IR up to 328 feet (100 meters) using CAT6 cable

- Configure and control the switch through serial port, front panel buttons, or Infrared remote control.
- Supports HDTV resolutions to 1080p.
- Each input can be independently connected to any or all outputs.
- Video quality adjustment is done automatically at every connection change.
- HDCP compliant.
- HDMI features supported:
  - 12-bit Deep Color
  - x.v.Color
  - Dolby TrueHD, DTS-HD Master Audio, Dolby Digital, DTS 7.1 and LPCM.
  - Bandwidth up to 225 MHz (6.75 Gbps)
  - Support for CEC (consumer electronic control) compatible devices.
  - Lip Sync
  - 3D
- No loss of audio or video quality between the switch and remote units.
- Features two Ethernet ports on the switch and remote units for connecting standard network devices such as 100Base-T routers and hubs, or home theater devices such as smart TVs or smart Blu-ray players.

**VEEMUX® SM-8X8-C6HDR-HDBT (Front & Back)**
**with**
**One of the Included IR Remote Controls & Receivers (Front & Back)**

The VEEMUX® HDMI Matrix Switch Over HDBase-T with Direct HDMI Inputs and CAT6 Outputs routes uncompressed digital HDMI signal and IR from eight HDMI video sources to eight displays (projectors, monitors, etc.) and speakers via inexpensive CAT6 cable using HDBase-T technology. It is capable of connecting to as many as eight HDMI video sources directly and eight video displays via receivers with a maximum extension of 328 feet (100 meters) from the switch using CAT6 cable.

## Specifications

### VEEMUX SM-8X8-C6HDR-HDBT
- Eight female HDMI input connectors
- Eight female RJ45 HDBase-T connectors for sending/receiving high definition video, audio, IR, Ethernet and DDC signals.
- Nine female 3.5mm ports for IR transmitters.
  - IR transport channel only supports one direction - the transmitter has to be connected to the switch.
- Two female RJ45 100BaseT Ethernet ports for connecting standard network devices such as 100Base-T routers and hubs, or home theater devices such as smart TVs or smart Blu-ray players.
- One female DB9 connector for RS232 control.

### Dimensions
- WxDxH: 17.32x7.87x2.76 in. (440x200x70 mm)

### Power
- 100 to 240 VAC at 50 or 60 Hz via AC adapter.

### Environmental
- Operating temperature: 5°F to 131°F (-15°C to 55°C).
- Operating relative humidity: 5 to 90% non-condensing RH.

### Regulatory Approvals
- CE, RoHS

### Warranty
- Two years

### Remote Unit (Receiver)
### Video Output
- Supports HDTV resolutions to 1080p
- One female HDMI output connector
- One female RJ45 HDBase-T connector for sending/receiving high definition video, audio, IR, Ethernet and DDC signals.
- Two female RJ45 100BaseT Ethernet ports for connecting standard network devices such as 100Base-T routers and hubs, or home theater devices such as smart TVs or smart Blu-ray players.
- Two female 3.5mm ports for IR receivers.
  - IR transport channel only supports one direction - the receiver has to be connected to the remote unit.
- Auto equalization for different lengths of CAT6 cable

### Dimensions
- WxDxH: 4.31x2.94x0.90 in. (109x75x23 mm)

### Power
- 100 to 240 VAC at 50 or 60 Hz via AC adapter.

### Environmental
- Operating temperature: 5°F to 131°F (-15°C to 55°C).
- Operating relative humidity: 5 to 90% non-condensing RH.

### Regulatory Approvals
- CE, RoHS

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## Control Methods

### Front Panel Interface

- Configuration and control can be done using the front panel buttons.
- LED display shows which input device is being used by each output device.

### RS232

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

### IR Remote Control

- IR control of matrix switch:
  - The matrix switch can be controlled with the included IR remote using the built-in IR receiver on the switch or remotely via an IR receiver connected to the remote
- IR control of connected sources:
  - HDMI sources can be controlled remotely using the source's IR remote control through the remote unit's IR reciever
  - IR control only supports one direction - from remote side to matrix side.

## Package Includes

- One 8x8 HDMI matrix switch over HDBase-T
- Eight HDBase-T remote units
- Eight IR remotes
- Eight IR transmitters
- Nine IR receivers
- One 12V power supply
- Eight 5V power supplies
- One CD for RS232 control
- User manual

## Cables

- Use HD-xx-MM cable to connect an HDMI source or display.
  - Maximum HDMI cable length: 65 feet (19.8 meters)
- Use CAT6 solid straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors.
- Cables not included

| HDMI Matrix Switch Over HDBase-T with Direct HDMI Inputs & CAT6 Outputs | | |
|---|---|---|
| NTI Part # | HDMI Inputs | RJ45 Outputs |
| SM-8X8-C6HDR-HDBT | 8 | 8 |

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