

SM-DVN-84X

8-PORT DVI-D MATRIX KVM SWITCH WITH USB 2.0 SHARING (4 USERS)



ALLOWS UP TO 4 USERS TO ACCESS AND CONTROL UP TO 8 DVI OR HDMI COMPUTERS
FROM SEPARATE USB KEYBOARD/MOUSE AND DVI/HDMI MONITORS

FEATURES

- DVI-D Dual Link Video Connectors; can mix DVI Dual-Link and DVI Single-Link Computers
- HDMI support using active adapters or cables
- Supports all major Operating Systems like Windows, Mac, Linux, Sun, Unix, DOS, etc.
- Supports resolutions up to 2560 x 1600 @ 60Hz
- Zero pixel loss with TMDS signal correction
- Supports USB keyboard and mouse
- Supports additional USB 2.0 devices like printers, scanners, web cameras and more
- Rack mountable in a standard 19 inch rack
- Flash upgradeable firmware
- Stereo Audio support
- Front panel keys for manual port selection
- Hot-key commands for quick port selection
- RS-232 for remote control
- Independent (asynchronous) switching of KVM and peripheral USB/audio ports. Users can listen to audio from one computer while working on a different computer, or scan a document and save it on another computer
- Complete keyboard emulation for error free booting

APPLICATIONS

- Server Collocation
- Digital Signage
- Education
- Airports
- Dealer Rooms
- Control Rooms
- Audio/Visual Presentations
- Shopping Centers
- Hotels/Resorts



Designed and Manufactured in the USA

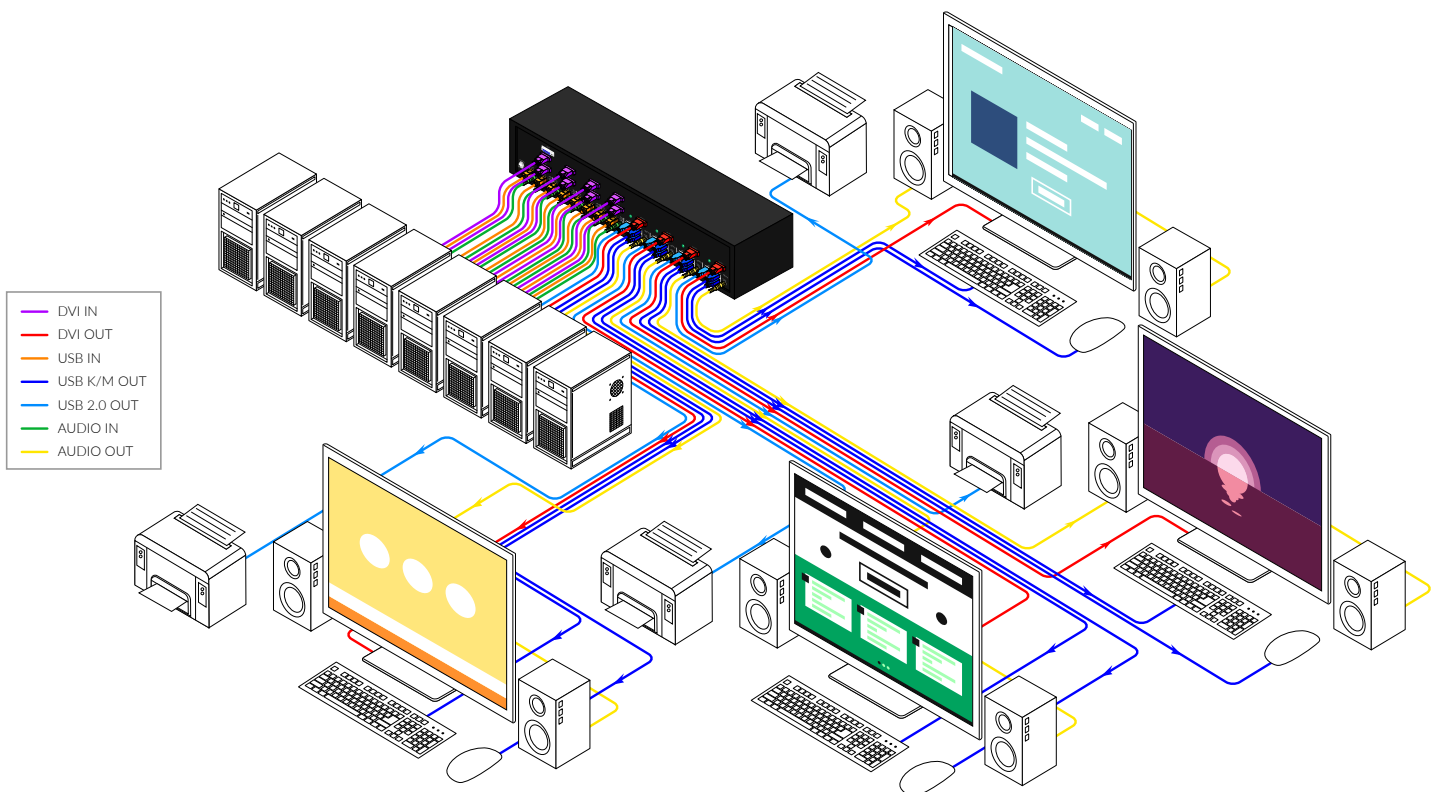
OVERVIEW

The SM-DVN-84X is a dedicated multi-platform KVM Switch capable of managing up to 8 different computers through four monitors, USB keyboard and mouse, a set of speakers, and USB devices like printers, memory devices, scanners, etc. With multi-user support, the SM-DVN-84X can accommodate up to 4 users. The video connectors on the unit are DVI-D, which allows support for HDMI using active adapters or cables. When using a DVI or an HDMI monitor, computers can be a mix of either DVI or HDMI.

The SM-DVN-84X supports resolutions of up to 2560x1600 @60Hz with zero pixel loss from TMDS signal correction.

APPLICATION DIAGRAM

The main function of this KVM Switch is to centralize the access of several computers into a single, comprehensive KVM Station. Its USB 2.0 functionality support allows users at the console to access USB devices that would otherwise be unavailable on conventional KVM Switches. For example, it allows the use of a flash memory drive or camera without having to plug it directly into the remote computer. The SM-DVN-84X is a perfect solution for the medical or industrial field where it may not be practical or safe to have one or more CPUs in the general vicinity.



The SM-DVN-84X can be utilized concurrently by up to 4 users, allowing for efficient usage and sharing of computing resources. The front panel console permits each user to easily access and switch between the connected computers. The centralization of input computers and user access consoles reduces the amount of cabling and the number of workstations required for complex computing environments, thereby facilitating organization and simplicity.

FLEXIBLE CONTROL

RS-232

Any external device or program supporting RS-232 can control the SM-DVN-84X. The SM-DVN-84X uses a very simple protocol, enabling easy integration with the RS-232 control devices.

USB/KEYBOARD

Hot keys enable the user to switch and control all the different functions of the KVM Switch

FLEXIBLE SHARING

INDEPENDENT SIMULTANEOUS DEVICE SELECTION

Flexibility is key with the SM-DVN-84X. It enables the use of a USB keyboard and mouse on one computer while other USB peripherals such as speakers, scanners and printers are connected to other computer sources. The SM-DVN-84X maintains the ability to switch all connected devices to any one of the computer sources as with any other KVM Switch in the market.



SM-DVN-84X Back



SM-DVN-84X Front

TECHNICAL SPECIFICATION

| VIDEO | |
|---------------------|---|
| Format | DVI Dual Link; DVI Single-Link |
| Maximum Pixel Clock | 165 MHz |
| Input Interface | (16) DVI-D 29-pin |
| Output Interface | (2) DVI-D 29-pin |
| Resolution | DVI Dual-Link: 2560 x 1600; DVI Single-Link: 1920 x 1200 |
| Color Mode | 24-bit |
| DDC | 5 volts p-p (TTL) |
| Input Equalization | Automatic |
| Input Cable Length | Up to 20 ft. |
| Output Cable Length | Up to 20 ft. |
| Data Rate | 1.65 Gbps per color |

| AUDIO | |
|--------------------|-------------------------|
| Input Interface | (8) 3.5 mm Stereo Audio |
| Output Interface | (1) 3.5 mm Stereo Audio |
| Impedance | 600 Ohm |
| Frequency Response | 20 Hz to 20 kHz |
| Nominal Level | 0-1.0 V |
| Common Mode | Rejection at 60 dB |

| SOFTWARE COMPATIBILITY | |
|------------------------|--|
| Operating Systems | Operates with virtually any OS including Windows, DOS, Linux, Unix, Sun, Mac, etc. |

| USB | |
|------------------|---|
| Signal Type | USB 2.0, 1.1, and 1.0 w/ internal hub |
| Input Interface | (8) USB Type B |
| Output Interface | (2) USB 1.1 Type A for KVM Devices; (2) USB 2.0 Type A Transparent |

| CONTROL | |
|-------------|----------------------------------|
| Front Panel | Push Buttons with LED Indicators |
| RS-232 | Via Control @ 115200 bps |
| Hot Keys | Via Keyboard |

| OTHER | |
|-----------------------|---------------------------------------|
| Power | External 100-240 VAC/12VDC3A @ 36W |
| Dimensions | 17.0" W x 2.7" H x 8.69" D |
| Weight | 6.9 lbs |
| Approvals | UL, CE, ROHS Compliant |
| Operating Temperature | +32 to +104°F (0 to +40°C) |
| Storage Temperature | -4 to 140°F (-20 to +60°C) |
| Humidity | Up to 80% (No Condensation) |
| Emulation | Keyboard and Mouse |

| PART NO. | DESCRIPTION |
|--------------|--|
| SM-DVN-84X-S | 8-Port DVI-D Matrix KVM Switch with Audio and USB 2.0 Support (4 Users). Includes: [SM-DVN-84X, and PS12VD2A] |