UNINTERRUPTED USB, KEYBOARD & MOUSE EMULATION

DVN-4Quad

4-Port Quad Display DVI-D KVM Switch with USB 2.0 Sharing

Access and Control 4 Quad Display Computers Using Only One USB Keyboard and One USB Mouse

MADE IN THE USA

MEMBER OF (((HDCP))) GROUP

HD ready 1080p

Smart-AVI
SMART AUDIO VIDEO INNOVATION

OVERVIEW

DVN-4Quad is a dedicated multi-platform KVM switch capable of managing up to 4 different computers through four DVI-D monitors, one USB keyboard & mouse, a single set of speakers and a USB 2.0 Device.

The USB emulation technology utilized by DVN-4Quad enables immediate hotkey source switching through a remote USB keyboard and mouse. DVN-4Quad uses single link connectors providing high resolutions of up to 1920x1200 with zero pixel loss from TMDS signal correction.

FEATURES

- Supports Mac, PC, Linux and Sun Mac OS, Sun OS, Unix
- Supports High Resolution 1920x1200 60Hz WUXGA
- Uses universal DVI Single Link connectors
- Zero pixel loss with TMDS signal correction
- Supports all USB 2.0 Devices
- Control Sun, Mac or PC computers from a common KVM console
- Compatible with all major software including Windows, Linux, Mac OS, Sun OS, Unix
- Rack mountable in a standard 19 inch rack
- Flash upgradeable firmware
- Front panel keys for selecting users and channels manually

- Supports USB keyboard and mouse
- Balanced stereo audio output
- RS-232 control for remote control
- Optional TCP/IP control
- Hot-key commands for quick channel selection.
- Independent (asynchronous) switching of KVM and peripheral USB/audio ports. Users can listen to audio from one computer while working on the other or scan a document and save in another computer.
- Complete keyboard emulation for error free booting
- Superior video quality - 1920 x 1200 @ 60 Hz

SOURCE SWITCHING MADE EASY
The DVN-4Quad provides a simplified management approach to up 4 computers with DVI-D, audio, and USB 2.0 outputs. This dynamic KVM console can be controlled remotely from easily accessible keyboard hotkeys or RS-232 commands, as well as directly through the console's easy to read front panel.

EDID LEARNING & PROGRAMMING
Detection of DDC signals for all attached devices is effortless with DVN-4Quad due to its real EDID learning and programming. This is vital in optimizing the resolution of the selected graphics card to properly display on the remote monitor. Furthermore, the EDID learning feature continues to replicate the right DDC for the computer to enable the display card to effectively work when unused ports are not selected.

FULL USB KEYBOARD AND MOUSE EMULATION
The USB keyboard and mouse emulation utilized by DVN-4Quad provides accurate and quick source switching by means of keyboard hotkeys and mouse actions. DVN-4Quad imitates the presence of a keyboard and mouse for every attached computer through a USB cable. This is essential as it simulates the existence of the keyboard and mouse to all the computers while switching without interruptions.
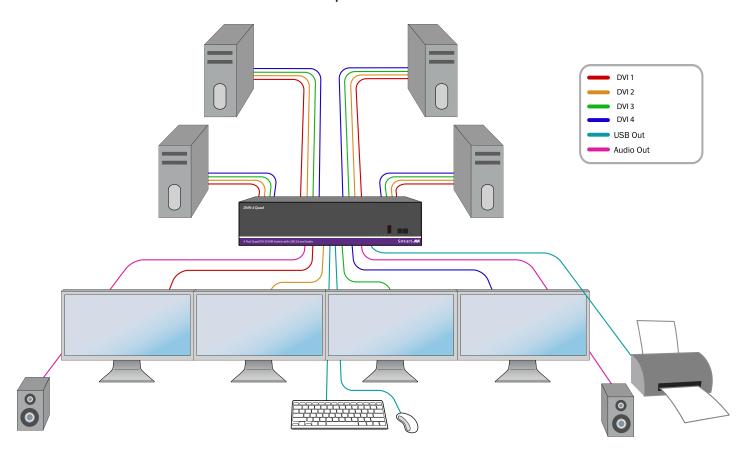
REAL-WORLD APPLICATIONS

The DVN-4Quad has a broad range of applications, but the main function of this KVM switch is to centralize the access of several computers into one comprehensive PC. Not only does it function as a KVM console, it also supports USB 2.0 functionality. This allows a user at the console to use USB devices that would otherwise be unavailable with conventional KVM devices. For example, it allows a user to use a flash memory drive or camera without having to plug it directly into the remote computer. DVN-4Quad 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.

- Server Collocation
- Digital Signage
- Education
- Airports
- Dealer Rooms

- Control Rooms
- Audio/Visual Presentations
- Shopping Centers
- Hotels/Resorts
- KVM Switches

4 Computers

Legend:
- DVI 1
- DVI 2
- DVI 3
- DVI 4
- USB Out
- Audio Out

FLEXIBLE CONTROL

RS-232: Any external device or program supporting RS-232 can control the DVN-4Quad. The DVN-4Quad uses very simple protocol, that enables easy integration with other devices.

USB/KEYBOARD: Hot keys enable the user to switch and control all the different functions of the KVM system.

TCP/IP: SMTCP-2 is a SmartAVI optional TCP/IP converter that enables users to switch and control the DVN-4Quad control from anywhere in the world using a LAN or WAN connection.

FLEXIBLE SHARING

INDEPENDENT SIMULTANEOUS DEVICE SELECTION: Flexibility is key with the DVN-4Quad. It enables the use of a USB keyboard and mouse of one computer while other USB peripherals such as speakers, scanners and printers are connected to other computer sources. DVN-4Quad maintains the ability to switch all connected devices to any one of the computer sources as with any other KVM switches.

SPECIFICATIONS

DVN-4Quad Front

DVN-4Quad Rear

VIDEO

Format	DVI-D Single Link, DVI 1.0
Maximum Pixel Clock	165 MHz
Input Interface	(16) DVI-D 29-pin
Output Interface	(4) DVI-D 29-pin
Resolution	Up to 1920 x 1200 @60Hz
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	(4) 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

USB

Signal Type	USB 2.0, 1.1, and 1.0 w/ internal hub
Input Interface	(4) USB Type B
Output Interface	(2) USB 1.1 Type A for KVM Devices
	(2) USB 2.0 Type A Transparent

CONTROL

Front Panel	Tactile Switch, Display: LCD 2 x 20 Character
RS-232	Via Control @ 115200 bps
Hot Keys	Via Keyboard
IR	RC5

OTHER

Power	External 100-240 VAC/ 5VDC4A @ 20W
Dimensions	12.5" W x 4.3" H x 6.4" D
Weight	4.9 lbs.
Approvals	UL, CE, ROHS Compliant
Operating Temp.	32-131 °F (0-55 °C)
Storage Temp.	-4-185 °F (-20-85 °C)
Humidity	Up to 95%
Emulation	Keyboard and Mouse

ORDERING INFORMATION

Part No.	Description
DVN-4QuadS	DVNET-4Quad, 4x4 DVI-D, USB 2.0, Audio Switch. Includes: [DVN-4Quad & (PS5VDC4A)]
RMT-2	Optional Remote Control with IR-EYE

Designed and Manufactured in the USA

Smart-AVI
SMART AUDIO VIDEO INNOVATION