DVN-16P

16-Port Multiplatform DVI-D Switch with USB 2.0 and Stereo Audio.

The DVN-16P is a cross-platform switch capable of sharing a DVI-D monitor, stereo speakers and USB 2.0 devices between sixteen computers.

SmartAVI's DVN-16P matrix switch provides an easy and dynamic approach to switching up to 16 high-definiton DVI-D video, stereo audio and USB 2.0 sources. The switching functions can be controlled either directly via the front panel, or remotely using RS-232, IR, USB or TCP/IP. The switch comes with our Windows®-based software for RS-232 control, SmartControl, which is easy to understand and simple to use – a cornerstone of all SmartAVI products.

The switch features fully transparent USB 2.0 switching that allows for USB 2.0 devices to be connected at the console. Flash memory drives, USB cameras, and other USB peripherals can be switched between up to 16 computers.

Another feature of the DVN-16P is EDID learning, which allows the switch to emulate the DDC signal of the attached monitor to all the attached devices, not just the selected port. It learns the EDID information of the monitor and emulates it to the attached devices, even when their ports are not selected. This is very important because if the EDID information is not emulated when a computer is booting up, the computer will default to a low-resolution setting.

FEATURES:

- Supports Mac, PC, Linux and Sun DVI
- 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 (Flash Drives, Printers, Cameras, Scanners, etc.)

- Supports USB 2.0 keyboard and mouse
- Balanced stereo audio output
- Front panel tactile switch with LED indicator
- Full IR and RS-232 control

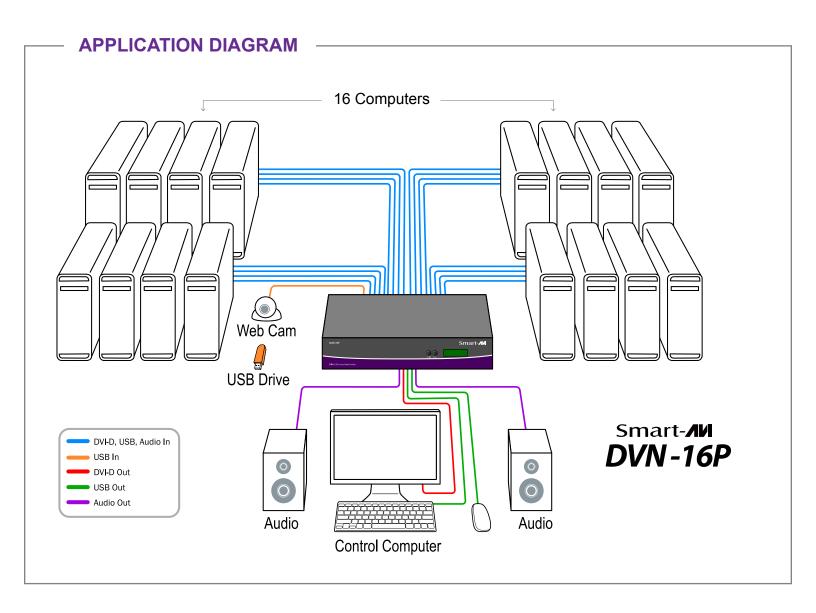Smart-AVI
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SOURCE SWITCHING MADE EASY

The DVN-16P provides a simplified management approach to up 16 computers with DVI-D, audio, and USB 2.0 outputs. This dynamic KVM console can be controlled remotely from RS232 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-16P 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.

APPLICATION DIAGRAM

16 Computers

Web Cam

USB Drive

DVI-D, USB, Audio In
USB In
DVI-D Out
USB Out
Audio Out

Audio

Control Computer

Audio

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APPLICATIONS

The DVN-16P has a broad range of applications, but its main function is to centralize the access to several computers into one console. Not only does it function like a KVM, it has USB support. This allows a user at the console to use USB devices that would otherwise be unavailable with conventional KVMs. For example, it allows a user to use a flash memory drive or camera without having to plug it directly into the remote computer. In the medical or industrial field for example, where it may not be practical (or safe) to have one or more CPUs in the general vicinity, the DVN-16P is a perfect solution.

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

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

FLEXIBLE CONTROL

RS-232: Controlling the DVN-16P has never been simpler with SmartControl software. With SmartControl you can assign a unique name to each port on the Switch, allowing full customization of projects to meet your needs. Although all the functions of the matrix are available locally on the front panel of the DVN-16P, using SmartControl allows for simplified customization of all the matrix functions.

USB: Computers that do not have an RS-232 port can connect to the DVN-16P via SmartAVI's USB to RS-232 converter. Utilize all the control of an RS-232 control interface with the simple and common USB interface. This solution is perfect for laptops and newer computers that only have a USB port.
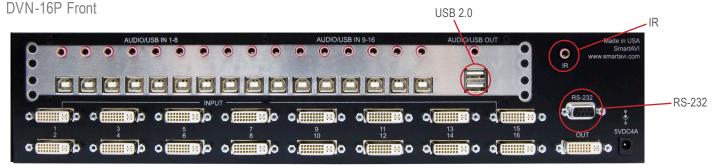
IR: Many system proffesionals prefer the IR control interface because it offers greater flexibility to manage the DVN-16P at a distance. In some cases, the switch may be located some distance from the console and it is necessary to control the matrix with Infrared control.

TCP/IP: Remote control is essential to real-time management of the DVN-16P. SmartAVI's SMTCP module is the perfect solution to effective remote management. Simply connect the SMTCP module to the DVN-16P and connect from anywhere on the internet. When you need to make a change, but can't be there in person, the SMTCP makes remote control a snap.

EDID UTILITY: With SmartAVI's EDID Utility it is possible to upload multiple EDID to the Matrix. EDID is information sent by a display back to the computer, indicating the maximum resolution that display is capable of rendering. When controlling multiple displays it is critical to be able to manage the EDID information. With our EDID utility, managing your displays is simple.

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SPECIFICATIONS

DVN-16P Front

DVN-16P Rear

VIDEO	
Format	DVI-D Single Link, DVI 1.0
Maximum Pixel Clock	165 MHz
Input Interface	(16) DVI-D 29-pin
Output Interface	(1) 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	(16) 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	(16) USB Type B
Output Interface	(2) USB 2.0 Type A Transparent
CONTROL	
Front Panel	Tactile Switch, Display: LCD 2 x 20 Character
RS-232	Via Software @ 9600 bps
IR	Via Remote Control with IR-EYE Type 3
OTHER	
Power	External 100-240 VAC/ 5VDC4A @ 20W
Dimensions	17" W x 3.5" H x 6.75" D
Weight	10 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	No Keyboard or Mouse Emulation

ORDERING INFORMATION	
Part No.	**Description**
DVN-16PS	DVNET-16P, 16x1 DVI-D, USB 2.0, Audio Switch Includes: [DVN-16P (PS5VDC4A)]
RMT-2	Optional Remote Contol with IR-EYE

Designed and Manufactured in the USA

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