DPN-4P

4-Port DisplayPort 1.2 KVM Switch with USB 2.0 Sharing

UNINTERRUPTED USB, KEYBOARD & MOUSE EMULATION

Access and Control Four Computers Using One KVM Workstation with a DisplayPort 1.2 Monitor with Full USB 2.0 KVM Emulation and Support for 4K HD Resolution

FEATURES

- Switch KVM control on four connected computers from one workstation with a DisplayPort monitor
- Supports resolutions up to 3840x2160 (@30Hz)
- DisplayPort 1.2 compliant
- Zero pixel loss with TMDS signal correction
- Supports all USB 2.0 devices, including keyboard and mouse
- Supports Windows, Mac and Linux
- Rack mountable in a standard 19 inch rack
- Supports control via RS-232

- Hot key commands for quick channel selection
- Independent (asynchronous) switching of KVM and peripheral USB ports. Users can scan a document and save in another computer
- Complete keyboard emulation for error free booting
- Front panel keys for manual switching
- HDMI and DVI supported with adaptors, backwards compatible with prior DisplayPort versions

MADE IN THE USA

4K/2K

HD ready 1080p

Smart-AVI
SMART AUDIO VIDEO INNOVATION

OVERVIEW

DPN-4P is a dedicated multi-platform KVM switch capable of managing four 4K computers through a single DisplayPort monitor, USB keyboard, USB mouse, and other USB 2.0 devices. DisplayPort is one of the latest options in screen connectivity that delivers top quality high-definition video, and this device is DisplayPort 1.2 compliant with support for screen resolutions up to 4K HD to (3840x2160 @30Hz). HDMI and DVI video connections are supported with the proper video converters, and the device is backwards compatible with prior DisplayPort versions.

The USB emulation technology utilized by DPN-4P enables immediate hot key source switching through the connected USB keyboard and mouse. Additional USB peripherals can be attached, like a USB printer. RS-232 control and front panel switching are supported.

SOURCE SWITCHING MADE EASY

The DPN-4P provides a simplified management approach for four DisplayPort equipped computers USB 2.0 outputs for a keyboard, mouse and other USB peripheral devices. This dynamic KVM console can be controlled keyboard hot keys or RS-232 commands, as well as directly through the console's easy-to-read front panel.

EDID PASS-THROUGH

The DPN-4P features EDID Pass-Through technology, which enables smooth and efficient switching, making the device easy to implement in virtually any scenario. This plug-and-play EDID functionality makes set up hassle free and simple.
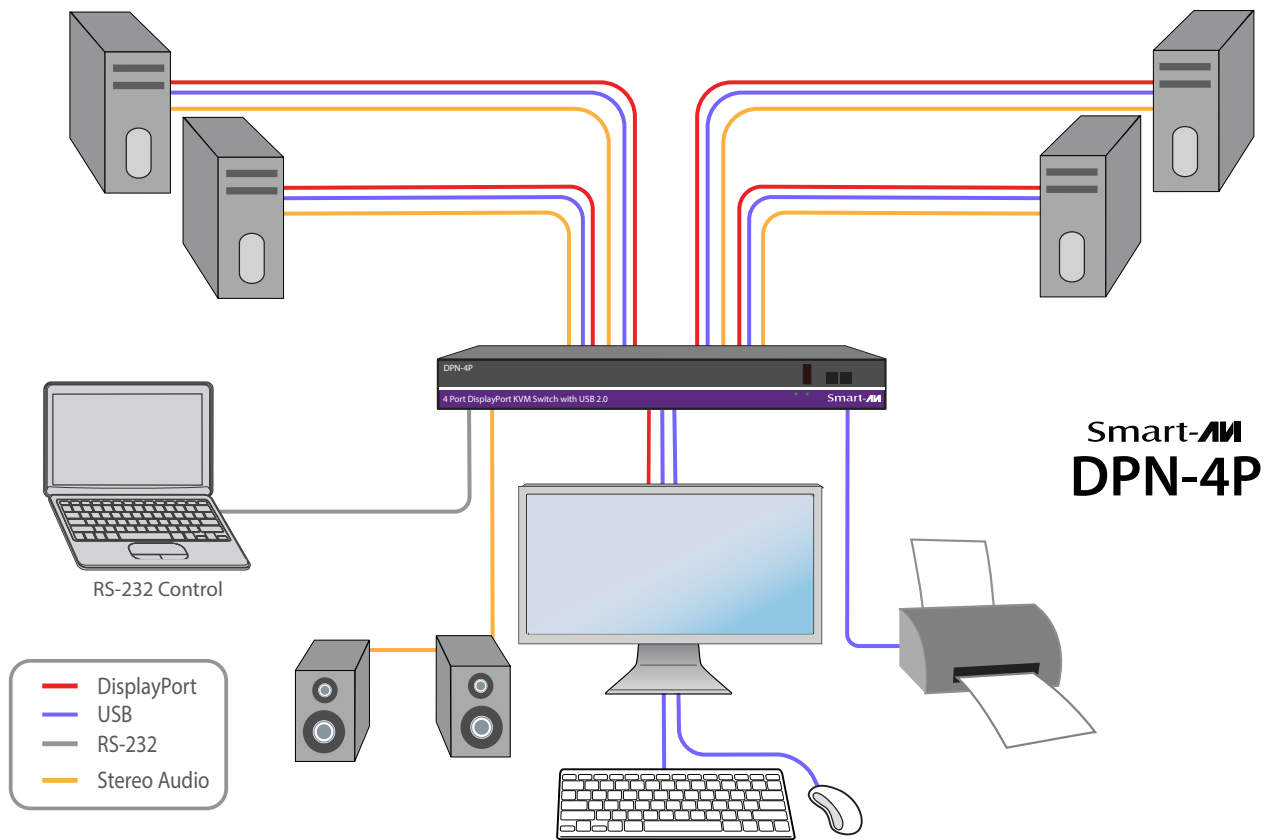
FULL USB KEYBOARD AND MOUSE EMULATION

The USB keyboard and mouse emulation utilized by DPN-4P provides quick source switching via keyboard hot keys. DPN-4P simulates 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 in order to switch without interruptions.

REAL-WORLD APPLICATIONS

The DPN-4P has a broad range of applications, but the main function is to centralize the access of up to four computers that support DisplayPort displays in a single workstation. Not only does it function as a KVM console, but it also supports USB 2.0 functionality. This allows users to access nearly USB device, including those not supported by other KVM switches. The DPN-4P is the ideal solution for medical, industrial, studio and defense applications, where it is not practical or safe to have multiple CPUs in the vicinity of the workstation.

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

- Hospitals/Medical Care
- Control Rooms
- Audio/Visual Presentations
- Shopping Centers
- Hotels/Resorts

DIAGRAM

RS-232 Control

- ▬ DisplayPort
- ▬ USB
- ▬ RS-232
- ▬ Stereo Audio

DPN-4P
4 Port DisplayPort KVM Switch with USB 2.0
Smart-AVI

Smart-AVI
DPN-4P

FLEXIBLE CONTROL

RS-232: Any external device or program supporting RS-232 can control the DPN-4P. The DPN-4P uses a 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 switch.

FLEXIBLE SHARING

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

SPECIFICATIONS

DPN-4P Front

DPN-4P Rear

VIDEO	
Format	DisplayPort 1.2
Link Rate	5.4 Gbps/lane
Input Interface	(4) DisplayPort (female)
Output Interface	(1) DisplayPort (female)
Resolution	Up to 4K (3840x2160 @30Hz)
DDC	Faux transaction mode option over Aux channel
Input Equalization	Automatic
Bandwidth	10.2Gbps

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

AUDIO	
Input	(4) 3.5mm stereo audio jack
Output	(1) 3.5mm stereo audio jack
Frequency Response	20Hz ~ 20KHz
Nominal Level	0 to 1.0 V
Common Mode	Rejection @ 60 dB

OTHER	
Power	External 100-240 VAC/ 5VDC2A
Dimensions	2" H x 6" D x 12.75" W
Weight	3.75 lbs
Approvals	UL, CE, ROHS Compliant
Operating Temp.	+23 to +95°F (-5 to +35°C)
Storage Temp.	-4 to 185°F (-20 to 85°C)
Humidity	up to 90% (No Condensation)

CONTROL	
Front Panel	<M1 & M2> Source Selection Buttons
RS-232	DB9 Female - 9600 N,8,1, No flow control
Hot Keys	Via Keyboard

ORDERING INFORMATION	
Part No.	**Description**
DPN-4P-S	4-Port DisplayPort KVM Switch with USB 2.0 and Front Panel Push Buttons. Includes: [DPN-4P & (PS5VDC2A)]

Designed and Manufactured in the USA

Smart-AVI
SMART AUDIO VIDEO INNOVATION