

# HDN-4P

4-Port HDMI KVM Switch with USB 2.0 and Audio



**UNINTERRUPTED  
USB, KEYBOARD & MOUSE  
EMULATION**

Access and control four computers using  
one USB keyboard-mouse and one HDMI Monitor.  
Supports full USB 2.0 KVM Emulation, 4K HD, and stereo audio.

## FEATURES

- Switch KVM control on four connected computers from one workstation with a HDMI monitor
- Supports resolutions up to 3840x2160 (@30Hz)
- HDCP 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
- DP and DVI supported with adaptors, backwards compatible with prior HDMI versions



## OVERVIEW

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HDN-4P is a dedicated multi-platform KVM switch capable of managing four 4K computers through a single HDMI monitor, USB keyboard and mouse combo. The HDN-4P's HDMI connectors deliver top quality 4K HD (3840x2160 @30Hz) for highly detailed visual operations. Both DisplayPort and DVI video connections are also supported via adapters (sold separately), and the device is backwards compatible with prior HDMI versions.

The USB emulation technology utilized by HDN-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 HDN-4P provides a simplified management approach for four HDMI 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 HDN-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 HDN-4P provides quick source switching via keyboard hot keys. HDN-4P simulates the presence of a keyboard and mouse for every attached computer through a USB cable.

## REAL-WORLD APPLICATIONS

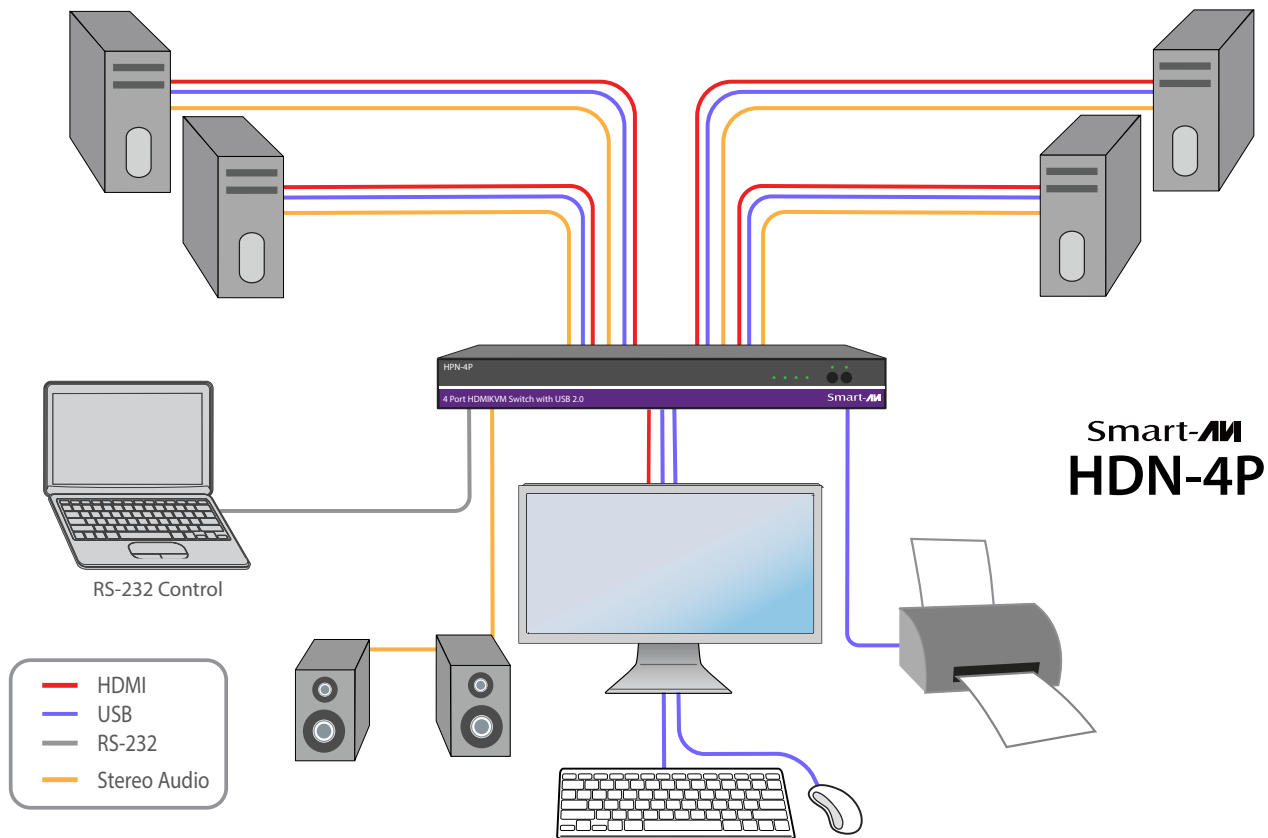
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The HDN-4P has a broad range of applications, but the main function is to centralize the access of up to four computers that support HDMI displays in a single workstation. Not only does it function as a KVM console, but it also supports USB 2.0 functionality. This allows users to access nearly USB device, including those not supported by other KVM switches. The HDN-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
- Banking/Finance
- Hospitals/Medical Care
- Control Rooms
- Audio/Visual Presentations
- Shopping Centers
- Hotels/Resorts

## DIAGRAM

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## FLEXIBLE CONTROL

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**RS-232:** Any external device or program supporting RS-232 can control the HDN-4P. The HDN-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

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**INDEPENDENT SIMULTANEOUS DEVICE SELECTION:** Flexibility is key with the HDN-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. HDN-4P maintains the ability to switch all connected devices to any one of the computer sources as with any other KVM switches.

# SPECIFICATIONS



HDN-4P Front



HDN-4P Rear

VIDEO	
Format	HDMI 1.4
Max Pixel Clock	300 MHz
Input Interface	(4) HDMI 19-pin (female)
Output Interface	(1) HDMI 19-pin (female)
Resolution	Up to 4K (3840x2160 @30Hz)
DDC	5 volts p-p (TTL)
Input Equalization	Automatic
Bandwidth	10.2 Gbps
Max. Cable Lengths	20 ft
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
CONTROL	
Front Panel	<M1 & M2> Source Selection Buttons
RS-232	Via Control @ 9600 bps
Hot Keys	Via Keyboard
Emulation	Keyboard and mouse only

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 5.75" D x 12.75" W
Weight	3.5 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 95%RH (No Condensation)

ORDERING INFORMATION	
Part No.	Description
HDN-4PS	4-Port HDMI KVM Switch with 4K HD and audio. Includes: [HDN-4P & (PS5VDC2A)]



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