

Smart-AVI SM-DPN Series SM-DPN-2S 2-Port DP KVM Switch **User Manual**

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SM-DPN SERIES Advanced 2-Port DISPLAYPORT UHD (4K60) KVM Switch





USER MANUAL

SM-DPN-2S	Single Head 2-port DP UHD (4K60) KVM Switch w/ USB 2.0 Sharing
SM-DPN-2D	Dual Head 2-port DP UHD (4K60) KVM Switch w/ USB 2.0 Sharing
SM-DPN-2Q	Quad Head 2-port DP UHD (4K60) KVM Switch w/ USB 2.0 Sharing

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TECHNICAL SPECIFICATIONS

VIDEO				
Format	DisplayPort12			
Maximum Pixel Clock	165 MHz			
	SM-DPN-2S	(2) DisplayPort		
Input Interface	SM-DPN-2D	(4) DisplayPort		
	SM-DPN-2Q	(8) DisplayPort		
	SM-DPN-2S	(1)DisplayPort		
Output Interface	SM-DPN-2D	(2)DisplayPort		
	SM-DPN-2Q	(4) DisplayPort		
Resolution	3840 x 2160e 60 Hz			
Color Mode	24-bit			
DDC	5 volts p.p (171)			
Input Equalization	Automatic			
Input Cable Length	Up to 20 ft			
Output Cable Length	Up to 20 ft			
Data Rate	1.65 Gbps per color			
Console Monitors	Supports both digital and analog monitors			
AUDIO				

Input Interface	(2)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	US8 2.0. 1.1, and 1.0 w/ internal hub				
Input Interface	(2) USB Type B (female)				
Output Interface	(2) USB Type A (female) for K/M emulation: (2) for USB 2.0Transparent				
Emulation	Keyboard and Mouse				
CONTROL					
Front Panel RS-232	Push Buttons with LED Indicators				
Tront raner no-202	DB9 Female – 115200 N,8.1. No flow control				
Hot Keys	Via Keyboard				
OTHER					
Power Adapter	SM-DPN-25 / SM-DPN-2D	External 100-240 VAC/12VDC2Ae 24W			
i owei Adaptei	SM-DPN-2Q	External 100-240 VAC/12VDC3Ae 24W			
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	Humidity Up to 80% (No Condensation)				

WHAT'S IN THE BOX?

PART NO.	Q-TY	DESCRIPTION	
SM-DPN Unit	1	2-Port DisplayPort KVM Switch with Audio and USB 2.0 Support	
PS5VDC2A /PS5VDC3A	1	12V DC, 2A (minimum) power adapter with center-pin positive polarity. Quad head models require a 12V DC 3A (minimum) power adapter with center-pin positive polarity.	
	1	User Manual	

FRONT AND BACK





SM-DPN-2S Back

SM-DPN-2S Back





SM-DPN-2D Front

SM-DPN-2D Back





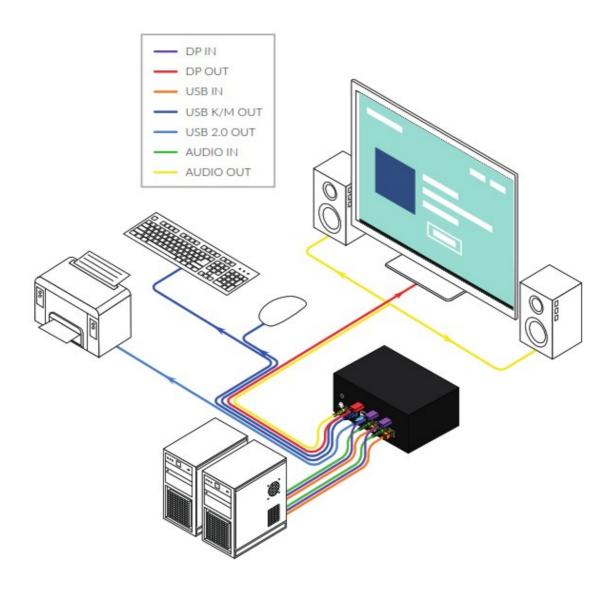
SM-DPN-2Q Front

SM-DPN-2Q Back

INSTALLATION

- 1. Ensure that power is turned off or disconnected from the unit and the computers.
- 2. Use a DisplayPort cable to connect the DisplayPort output port from each computer to the corresponding DP IN ports of the unit.
- 3. Use a USB cable (Type-A to Type-B) to connect a USB port on each computer to the respective USB ports of the unit.
- 4. Optionally connect a stereo audio cable (3.5mm to 3.5mm) to connect the audio output of the computers to the AUDIO IN ports of the unit.
- 5. Connect a monitor to the DP OUT console port of the unit using a DisplayPort cable.
- 6. Connect a USB keyboard and mouse in the two USB console ports.
- 7. Optionally connect stereo speakers to the AUDIO OUT port of the unit.
- 8. Finally, power on the KVM by connecting a 12VDC power supply to the power connector, and then turn on all the computers.

Note: You can connect up to 2 computers to the 2 port KVM.



SYSTEM OPERATION

There are three ways to control the SM-DPN: Keyboard Hotkeys, RS-232 Serial Commands, and Front Panel Buttons. All modes of control will allow the user the set their desired configurations.

FRONT PANEL CONTROL

To switch to an input port, simply push the button on the front-panel of the KVM. If an input port is selected, the LED of that port will turn on.

Hold down the button of Front Panel for 3 seconds to force learn EDID.

HOTKEY AND RS232 SERIAL CONTROL

The SM-DPN may also be controlled via RS-232 commands. To use these commands, you must use HyperTerminal or an alternate terminal application. The settings for the connection are as follows: Baudrate 115200; Data Bits 8; Parity None; Stop Bits 1; Flow Control None. Once you have connected to the SM-DPN via Serial, you will see the SM-DPN information when the device starts up.

The following commands can be used for RS-232 with available keyboard hotkeys:

COMMAND DESCRIPTION	HOTKEY	RS-232 COMMAND
Switch All USB, Video, and Audio	[CTRL][CTRL] [port #] [ENTER]	//m [port #] [ENTER]
Switch Audio Only	[CTRL][CTRL] a [port #] [ENTER]	//a [port #] [ENTER]
Switch KVM Only	[CTRL][CTRL] c [port #] [ENTER]	//c [port #] [ENTER]
Switch USB Only	[CTRL][CTRL] u [port #] [ENTER]	//u [port #] [ENTER]
Learn EDID	[CTRL][CTRL] e [ENTER]	//e [ENTER]
Trigger Hotplug	[CTRL][CTRL] h [ENTER]	//h [ENTER]
Reset Software	[CTRL][CTRL] r [ENTER]	//r [ENTER]
Factory Defaults	[CTRL][CTRL] f [ENTER]	//f [ENTER]
Get Port Status	N/A	//?? [ENTER]

CUSTOM HOTKEY

Users are able to customize the keys that trigger Hotkeys. The default trigger for hot key function on the keyboard is **Ctrl + Ctrl**. The trigger function can be used to change to the following keys: **Ctrl** (Left / Right), **Alt**, **Shift** (Left / Right), **Caps Lock**, **Scroll Lock**, **F1-F12**

TO VIEW HOTKEY TRIGGER SETTING

Use the RS-232 command: / + / + ? + ? + Enter to view the current HotKey Trigger To reset the Hotkey Trigger use the "Factory Defaults" command.

TO CHANGE THE HOTKEY TRIGGER SETTING

HotKey + HotKey + x + [desired hotkey]

Example: If users current Hotkey trigger is Shift and want to change to Scroll Lock, user would type **Shift + Shift** + **x + Scroll Lock**

TROUBLESHOOTING

No Power

- Make sure that the power adapter is securely connected to the power connector of the unit.
- Check the output voltage of the power supply and make sure that the voltage value is around 12VDC.
- · Replace the power supply.

No Video

- Check if all the video cables are connected properly.
- Connect the computer directly to the monitor to verify that your monitor and computer are functioning properly.
- Restart the computers.

Keyboard is not working

Check if the keyboard is properly connected to the unit.

- Check if the USB cables connecting the unit and the computers are properly connected.
- Try connecting the USB on the computer to a different port.
- Make sure that the keyboard works when directly connected to the computer.
- · Replace the keyboard.

Mouse is not working

- Check if the mouse is properly connected to the unit.
- Try connecting the USB on the computer to a different port.
- Make sure that the mouse works when directly connected to the computer.
- · Replace the mouse.

No Audio

- Check if all the audio cables are connected properly.
- Connect the speakers directly to the computer to verify that the speakers and the computer audio are functioning properly.
- Check the audio settings of the computer and verify that the audio output is through the speakers.

TECHNICAL SUPPORT

For product inquiries, warranty questions, or technical questions, please contact info@smartavi.com.

LIMITED WARRANTY STATEMENT

A. Extent of limited warranty

SmartAVI, Inc. warrants to the end-user customers that the SmartAVI product specified above will be free from defects in materials and workmanship for the duration of 1 year, which duration begins on the date of purchase by the customer. Customer is responsible for maintaining proof of date of purchase.

SmartAVI limited warranty covers only those defects which arise as a result of normal use of the product, and do not apply to any:

- a. Improper or inadequate maintenance or modifications
- b. Operations outside product specifications
- c. Mechanical abuse and exposure to severe conditions

If SmartAVI receives, during applicable warranty period, a notice of defect, SmartAVI will at its discretion replace or repair defective product. If SmartAVI is unable to replace or repair defective product covered by the SmartAVI warranty within reasonable period of time, SmartAVI shall refund the cost of the product.

SmartAVI shall have no obligation to repair, replace or refund unit until customer returns defective product to SmartAVI.

Any replacement product could be new or like new, provided that it has functionality at least equal to that of the product being replaced.

SmartAVI limited warranty is valid in any country where the covered product is distributed by SmartAVI.

B. Limitations of warranty

To the extant allowed by local law, neither SmartAVI nor its third party suppliers make any other warranty or condition of any kind whether expressed or implied with respect to the SmartAVI product, and specifically disclaim

implied warranties or conditions of merchantability, satisfactory quality, and fitness for a particular purpose.

C. Limitations of liability

To the extent allowed by local law the remedies provided in this warranty statement are the customers sole and exclusive remedies.

To the extant allowed by local law, except for the obligations specifically set forth in this warranty statement, in no event will SmartAVI or its third party suppliers be liable for direct, indirect, special, incidental, or consequential damages whether based on contract, tort or any other legal theory and whether advised of the possibility of such damages.

D. Local law

To the extent that this warranty statement is inconsistent with local law, this warranty statement shall be considered modified to be consistent with such law.

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2-port DP UHD (4K60) KVM Switch w/ USB 2.0 Sharing

Documents / Resources



<u>Smart-AVI SM-DPN Series SM-DPN-2S 2-Port DP KVM Switch</u> [pdf] User Manual SM-DPN Series, SM-DPN-2S, SM-DPN-2D, SM-DPN-2Q, 2-Port DP KVM Switch, SM-DPN Series SM-DPN-2S 2-Port DP KVM Switch

References

• /IVI SmartAVI

Manuals+.