SmartAVI SM-D2H-4D HDMI KVM Switch with USB Support User Manual

Contents

SmartAVI SM-D2H-4D HDMI KVM Switch with USB Support User Manual

USER MANUAL

SM-D2H-4S	4-Port Single-Head DP-to-HDMI KVM Switch with USB 2.0 Support
SM-D2H-4D	4-Port Dual-Head DP-to-HDMI KVM Switch with USB 2.0 Support

TECHNICAL SPECIFICATIONS

VIDEO		
Format	DisplayPort, HDMI	
Input Interface	SM-D2H-2S	(4) DisplayPort 20-pin
	SM-D2H-2D	(8) DisplayPort 20-pin
Output Interface	SM-D2H-2S	(1) HDMI 19-pin
	SM-D2H-2D	(2) HDMI 19-pin
Resolution	Up to 4K (3840×2160 @ 30Hz)	
DDC	5 volts p-p (TTL)	
Input Equalization	Automatic	
Input Cable Length	Up to 20 ft	
Output Cable Length	Up to 20 ft	
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	Push Buttons with LED Indicators
RS-232	DB9 Female – 115200 N,8,1, No flow control
Hot Keys	Via Keyboard

OTHER	
Power Adapter	External 100-240 VAC/12VDC3A @ 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	Up to 80% (No Condensation)
Emulation	Keyboard and Mouse

WHAT'S IN THE BOX?

PART NO.	Q-TY	DESCRIPTION
SM-D2H Unit	1	4-Port DP-to-HDMI KVM Switch with USB 2.0 Support
PS12VDC3A	1	Power Adapter
	1	User Manual

FRONT AND BACK
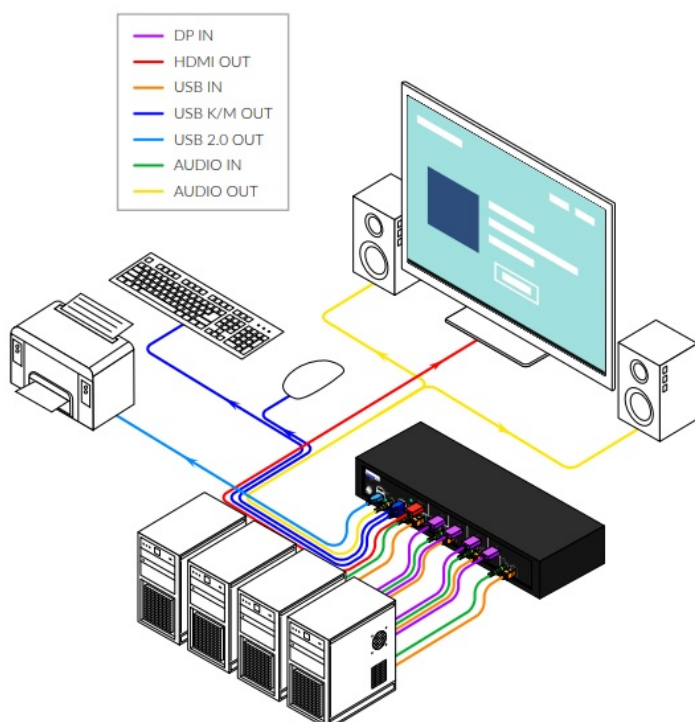
SM-D2H-4S Back

SM-D2H-4S Front

INSTALLATION

1. Ensure that power is turned off or disconnected from the unit and the
2. Use DisplayPort cables to connect the DP output ports from each computer to the corresponding DisplayPort 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 5mm) to connect the audio output of the computers to the AUDIO IN ports of the unit.
5. Connect monitors to the HDMI console ports of the unit using HDMI
6. Connect a USB keyboard and mouse in the two USB console
7. Optionally connect stereo speakers to the AUDIO OUT port of the
8. Finally, power on the KVM by connecting a 12VDC power supply to the power connector, and thenturn on all the computers

Note: You can connect up to 4 computers to the 4 port KVM

EDID LEARN

The KVM is designed to learn the connected monitor's EDID upon power up. In the event oconnecting a new monitor to the KVM, a power recycle is recommended.

The KVM will indicate to the user the EDID learn process by flashing the front panel's LEDs. When the LEDs stop flashing, the EDID learn process is done.

The monitor must be connected to the video output connector located in the console space at the back of the KVM during the EDID learn process.

If the read EDID from the connected monitor is identical to the current stored EDID in the KVM then the EDID learn function will be skipped

SYSTEM OPERATION

There are three ways to control the SM-D2H Unit: 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 isselected, 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-D2H Unit 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-D2H Unit via Serial, you will see the SM-D2H Unit's informationwhen 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 and Video	[CTRL][CTRL] [port #] [ENTER]	//**m** [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 TRIGGERS

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] RESET HOTKEY TRIGGER
Run "Factory Defaults" command.
Example: If users current Hotkey trigger is **Shift** and want to change to **Scroll Lock**, user would typeShift + Shift +
x + Scroll Lock

TROUBLESHOOTING

No Power

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

No Video

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

Keyboard is not working

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

Mouse is not working

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

No Audio

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

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:

1. Improper or inadequate maintenance or modifications
2. Operations outside product specifications
3. 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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  Designed and Manufactured in the USA

 Tel: (800) AVI-2131 • (702) 800-00052455 W Cheyenne Ave, Suite 112 North Las Vegas, NV 89032**www.smartavi.com**

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References

- **Home - SmartAVI**
- **User Manual**