SmartAVI SA-HDN-4S 4 Port DP HDMI To DP HDMI Secure KVM Switch User Guide

Contents

SmartAVI SA-HDN-4S 4 Port DP HDMI To DP HDMI Secure KVM Switch

Technical Specifications

- **Video:**
  - Host Interface: (4) DisplayPort 20-pin F; (4) HDMI 19-pin F
  - User Console Interface: (1) DisplayPort 20-pin F; (1) HDMI 19-pin F

- Max Resolution: 3840 x 2160 @ 60Hz
- DDC Input Equalization: 5 volts p-p (TTL)
- Input Cable Length: Up to 20 ft.
- Output Cable Length: Up to 20 ft.

- **USB:**
  - Signal Type: USB 1.1 and 1.0
  - USB Connectors: (4) USB Type B
  - User Console Interface: (2) USB Type-A for keyboard/mouse connections
- **Audio:**
  - Input: (4) Connector stereo 3.5 mm female
  - Output: (1) Connector stereo 3.5 mm female
- **Power:**
  - Power Requirements: 12V DC, 3A power adapter with center-pin positive polarity
- **Environment:**
  - Operating Temp: N/A
  - Storage Temp: N/A
  - Humidity: N/A
- **Certifications:**
  - Security Accreditation: Common Criteria Validated To NIAP, Protection Profile PSS Ver. 4.0
- **Other:**
  - Emulation: Keyboard, mouse, and video
  - User Controls: Front-panel buttons

Product Usage Instructions

EDID Learn

The KVM switch is designed to learn a connected monitor's EDID upon power up. In the event of connecting a new monitor to the KVM, a power recycle is required.
The KVM switch will indicate the unit's EDID learning process is active by flashing the front panel's LEDs in sequential order. Starting with the LED above button 1 on the front panel, each LED will flash green for approximately 10 seconds upon beginning the EDID learn. Once all the LEDs stop flashing, the LEDs will cycle and the EDID learning will be complete.
If the KVM switch has more than one video board (such as dual-head and quad-head models), then the unit will continue to learn the EDIDs of the connected monitors and indicate the progress of the process by flashing the next port selection green and blue push-button LEDs respectively.
A monitor must be connected to the video output port located in the console space at the back of the KVM switch during the EDID learning process.
If the read EDID from the connected monitor is identical to the current stored EDID in the KVM switch, then the EDID learn function will be skipped.

Hardware Installation

1. Ensure that power is turned off or disconnected from the unit and the computers.
2. Use DisplayPort or HDMI cables to connect the DisplayPort or HDMI output ports from each computer to the corresponding DP/HDMI 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 (3.5 mm to 3.5 mm) to connect the audio output of the computer(s) to the audio in the ports of the unit.
5. Connect monitor(s) to the DP/HDMI OUT console port of the unit using DisplayPort or HDMI cables.

FAQ

- Q: Where can I download the full manual for the product?
  - A: The full manual can be downloaded from **www.ipgard.com/documentation/**.
- Q: What is the power requirement for this product?
  - A: The power requirement for this product is 12V DC, 3A with a center-pin positive polarity.

WHAT'S IN THE BOX

PART NO.	QTY	DESCRIPTION
SA-HDN-4S	1	4-Port SH Secure DP/HDMI to DP/HDMI KVM with Audio
PS12VDC2A	1	12-VDC, 2-A power adapter with center-pin positive polarity.
	1	Quick Start Guide

TECHNICAL SPECIFICATIONS

VIDEO	
Host Interface	(4) DisplayPort 20-pin F; (4) HDMI 19-pin F
User Console Interface	(1) DisplayPort 20-pin F; (1) HDMI 19-pin F
Max Resolution	3840 x 2160 @ 60Hz
DDC	5 volts p-p (TTL)
Input Equalization	Automatic
Input Cable Length	Up to 20 ft.
Output Cable Length	Up to 20 ft.
USB	
Signal Type	USB 1.1 and 1.0 Keyboard and Mouse only
USB Connectors	(4) USB Type B
User Console Interface	(2) USB Type A for keyboard/mouse connections
AUDIO	
Input	(4) Connector stereo 3.5 mm female
Output	(1) Connector stereo 3.5 mm female
POWER	
Power Requirements	12V DC, 3A power adapter with center-pin positive polarity
ENVIRONMENT	
Operating Temp	32° to 104° F (0° to 40° C)
Storage Temp	-4° to 140° F (-20° to 60° C)
Humidity	0-80% RH, non-condensing
CERTIFICATIONS	
Security Accreditation	Common Criteria Validated To NIAP, Protection Profile PSS Ver. 4 .0
OTHER	
Emulation	Keyboard, mouse, and video
User Controls	Front-panel buttons

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EDID LEARN

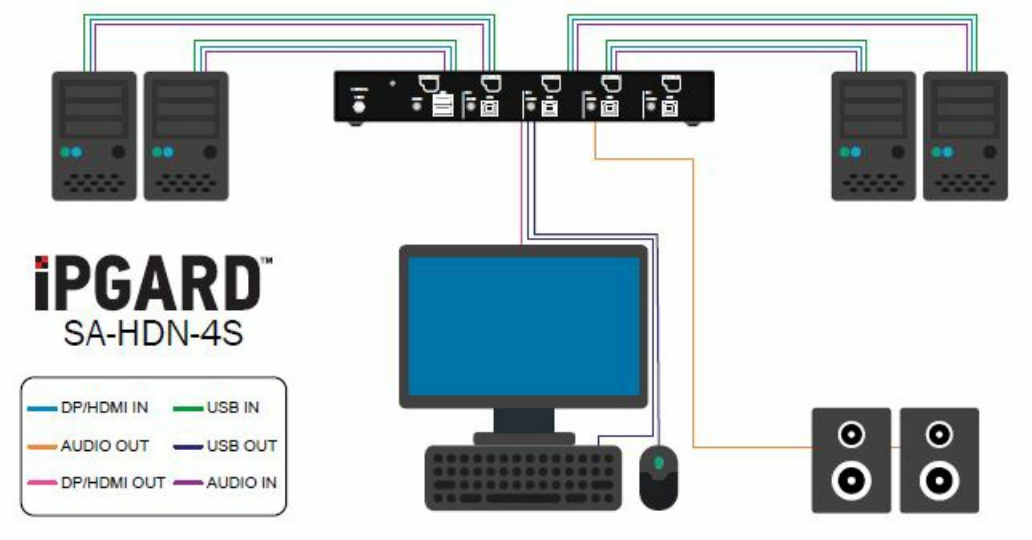
- The KVM switch is designed to learn a connected monitor's EDID upon power up. In the event of connecting a new monitor to the KVM a power recycle is required.
- The KVM switch will indicate the unit's EDID learn process is active by flashing the front panel's LEDs in sequential order.
- Starting with the LED above button "1" on the front panel, each LED will flash green for approximately 10 seconds upon beginning the EDID learn. Once all the LEDs stop flashing, the LEDs will cycle and the EDID learn will be complete.
- If the KVM switch has more than one video board (such as dual-head and quad-head models), then the unit will continue to learn the EDIDs of the connected monitors and indicate the progress of the process by flashing the next port selection green and blue push-button LEDs respectively.
- A monitor must be connected to the video output port located in the console space at the back of the KVM switch during the EDID learn process.
- If the read EDID from the connected monitor is identical to the current stored EDID in the KVM switch, then the EDID learn function will be skipped.

DESIGNED AND MADE IN THE USA

HARDWARE INSTALLATION

1. Ensure that power is turned off or disconnected from the unit and the computers.
2. Use DisplayPort or HDMI cables to connect the DisplayPort or HDMI output ports from each computer to the corresponding DP/HDMI 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 (3.5 mm to 3.5 mm) to connect the audio output of the computer(s) to the audio in ports of the unit.
5. Connect monitor(s) to the DP/HDMI OUT console port of the unit using DisplayPort or HDMI cable(s).
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 secure KVM switch by connecting a 12-VDC power supply to the power connector, and then turn on all the computers.

Note: You can connect one monitor to the single-head KVM switch. The computer connected to port 1 will always be selected by default after power up.
Note: You can connect up to 4 computer to the 4 port KVM.



A full Manual can be downloaded from www.ipgard.com/documentation/
Advanced 4-Port Secure Single-head DP/HDMI to DP/HDMI KVM Switch with Audio Quick Start Guide

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Documents / Resources

	SmartAVI SA-HDN-4S 4 Port DP HDMI To DP HDMI Secure KVM Switch [pdf] User Guide SA-HDN-4S 4 Port DP HDMI To DP HDMI Secure KVM Switch, SA-HDN-4S, 4 Port DP HDMI To DP HDMI Secure KVM Switch, DP HDMI Secure KVM Switch, Secure KVM Switch

References

- Home | IPGARD
- Documentation | IPGARD
- User Manual