



SmartAVI SA-DPH-4Q-P 4 Port DP Secure KVM Switch User Guide

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SmartAVI SA-DPH-4Q-P 4 Port DP Secure KVM Switch



Product Information

Technical Specifications

- Host Interface: (8) DisplayPort; (4) HDMI; (4) DVI-I
- User Console Interface: (2) DisplayPort; (1) HDMI; (1) DVI-I

- 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: (8) USB Type B; (2) USB Type A for keyboard/mouse connections; (1) USB Type A for CAC
- Audio Input: (4) Connector stereo 3.5 mm female
- Audio Output: (1) Connector stereo 3.5 mm female
- Power Requirements: 12V DC, 3A power adapter with center-pin positive polarity
- Operating Temp: Not specified
- Storage Temp: Not specified
- Humidity: Not specified
- Certifications: Common Criteria Validated To NIAP, Protection Profile PSS Ver. 4.0

What's in the Box?

- 1 x SA-DPH-4Q-P – 4-Port QH Secure Pro SH DVI, SH 1 HDMI, and DH DP KVM with audio and CAC
- 1 x PS12VDC2A – 12-VDC, 2-A power adapter with center-pin positive polarity
- 1 x Quick Start Guide

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 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.

Hardware Installation

1. Ensure that power is turned off or disconnected from the unit and the computers.
2. Use DisplayPort cables to connect the DisplayPort output ports from each computer to the corresponding DisplayPort 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, for CAC models, connect a CAC (Common Access Card, Smart Card Reader) to the CAC port in the user console interface.
5. Optionally, connect a stereo audio cable (3.5 mm to 3.5 mm) to connect the audio output of the computers to the audio input port of the KVM switch.

Frequently Asked Questions (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 the KVM switch?

A: The KVM switch requires a 12V DC, 3A power adapter with center-pin positive polarity.

Q: What certifications does the product have?

A: The product is Common Criteria Validated To NIAP, Protection Profile PSS Ver. 4.0 certified.

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.

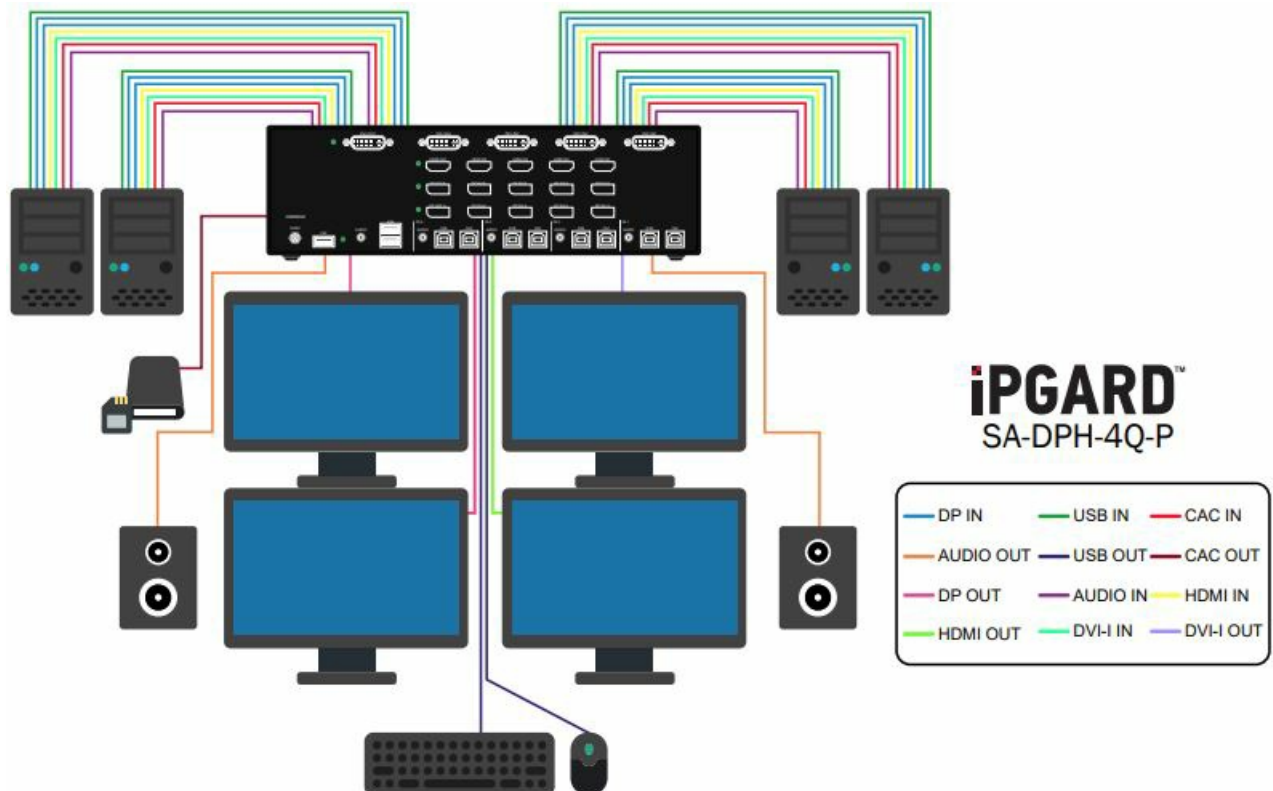
HARDWARE INSTALLATION

1. Ensure that power is turned off or disconnected from the unit and the computers.
2. Use Display Port cables to connect the Display Port output ports from each computer to the corresponding Display Port 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, for CAC models, connect a CAC (Common Access Card, Smart Card Reader) to the CAC port in the user console interface.

5. 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.
6. Connect monitor(s) to the Display Port out console port of the unit using Display Port cable(s).
7. Connect a USB keyboard and mouse in the two USB console ports.
8. Optionally, connect stereo speakers to the audio out port of the unit.
9. 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 four monitors to the quad-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.



TECHNICAL SPECIFICATIONS

VIDEO	
Host Interface	(8) DisplayPort; (4) HDMI; (4) DVI-I
User Console Interface	(2) DisplayPort; (1) HDMI; (1) DVI-I
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 2.0 for CAC connection.
USB Connectors	(8) USB Type B;
User Console Interface	(2) USB Type A for keyboard/mouse connections; (1) USB Type A for CAC
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

WHAT'S IN THE BOX

PART NO.	QTY	DESCRIPTION
SA-DPH-4Q-P	1	4-Port QH Secure Pro SH DVI, SH HDMI, and DH DP KVM with audio and CAC
PS12VDC2A	1	12-VDC, 2-A power adapter with center-pin positive polarity.
	1	Quick Start Guide

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Advanced 4-Port Secure Dual-head DP, Single-head HDMI and Single-head DVI-I KVM Switch with Audio and CAC Support
Quick Start Guide
A full manual can be downloaded from www.ipgard.com/documentation/

Documents / Resources

	<p>SmartAVI SA-DPH-4Q-P 4 Port DP Secure KVM Switch [pdf] User Guide SA-DPH-4Q-P 4 Port DP Secure KVM Switch, SA-DPH-4Q-P, 4 Port DP Secure KVM Switch, Secure KVM Switch, KVM Switch</p>
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References

-  [Home | IPGARD](#)
-  [Documentation | IPGARD](#)
- [User Manual](#)

Manuals+