

## TECHNICAL SPECIFICATIONS

VIDEO	
Host Interface	2-Port SH: (2) HDMI 19-pin F; 2-Port DH: (4) HDMI 19-pin F; 4-Port SH: (4) HDMI 19-pin F; 4-Port DH: (8) HDMI 19-pin F
User Console Interface	2-Port SH: (1) HDMI 19-pin F; 2-Port DH: (2) HDMI 19-pin F; 4-Port SH: (1) HDMI 19-pin F; 4-Port DH: (2) 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 2.0 for CAC connection.
USB Connectors	2-Port: (2) USB Type B; 2-Port w/CAC: (4) USB Type B; 4-Port: (4) USB Type B; 4-Port w/CAC: (8) USB Type B
User Console Interface	(2) USB Type A for keyboard/mouse connections; W/CAC: (1) USB Type A for CAC
AUDIO	
Input	2-Port: (2) Connector stereo 3.5 mm female; 4-Port: (4) Connector stereo 3.5 mm female
Output	(1) Connector stereo 3.5 mm female
POWER	
Power Requirements	12-VDC, 2-A 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% relative humidity, noncondensing
OTHER	
Emulation	Keyboard, mouse, and video
User Controls	Front-panel buttons

## WHAT'S IN THE BOX

PART NO.	QTY	DESCRIPTION
SUHN-2S	1	2-Port, Single-Head, HDMI
SUHN-2S-P	1	2-Port, Single-Head, HDMI with CAC
SUHN-2D	1	2-Port, Dual-Head, HDMI
SUHN-2D-P	1	2-Port, Dual-Head, HDMI with CAC
SUHN-4S	1	4-Port, Single-Head, HDMI
SUHN-4S-P	1	4-Port, Single-Head, HDMI with CAC
SUHN-4D	1	4-Port, Dual-Head, HDMI
SUHN-4D-P	1	4-Port, Dual-Head, HDMI with CAC
PS12VDC2A	1	12-VDC, 2-A power adapter with center-pin positive polarity.
	1	Quick Start Guide

## NOTICE

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# iPGARD™

2 Port and 4 Port HDMI secure KVM switch

**SUHN-2S, SUHN-2S-P,  
SUHN-2D, SUHN-2D-P,  
SUHN-4S, SUHN-4S-P,  
SUHN-4D, SUHN-4D-P**



**Advanced 2-Port and 4-Port  
Secure Single-head or Dual-head  
HDMI KVM Switch with Audio  
with or without CAC Support**

## Quick Start Guide

A full manual can be downloaded from  
[www.ipgard.com/documentation/](http://www.ipgard.com/documentation/)



**DESIGNED  
AND MADE  
IN THE USA**

## 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 HDMI cables to connect the HDMI output ports from each computer to the corresponding 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, 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 HDMI out console port of the unit using HDMI 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.

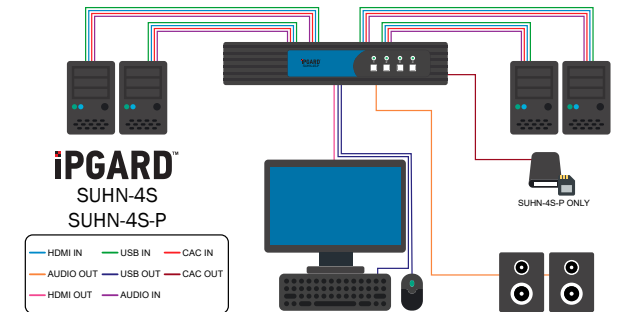
**Note:** You can connect one monitor to the single-head KVM switch and two monitors to the dual-head KVM switch. The computer connected to port 1 will always be selected by default after power up.

## FIGURE 1. HDMI CONNECTOR

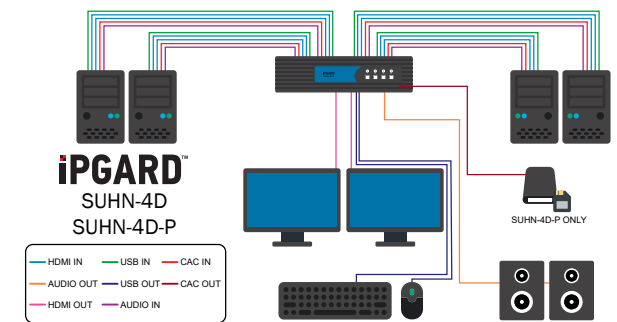


HDMI Connector

## FIGURE 2. SINGLE-HEAD APPLICATION DIAGRAM



## FIGURE 3. DUAL-HEAD APPLICATION DIAGRAM



**Note:** There are up to 2 computers can be connected to 2-port model. There are up to 4 computers can be connected to 4-port model.