

## TECHNICAL SPECIFICATIONS

VIDEO	
Host Interface	(16) DVI-I 29-pin F
User Console Interface	(1) DVI-I 29-pin F
Max Resolution	2560 x 1600 @ 60Hz; 3840 x 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.
USB	
Signal Type	USB 1.1 and 1.0 Keyboard and Mouse only. USB 2.0 for CAC connection.
USB Connectors	(32) USB Type B
User Console Interface	(2) USB Type A for keyboard/ mouse connections; (1) USB Type A for CAC
AUDIO	
Input	(16) 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-DVN-16S-P	1	16-Port SH Secure DVI-I KVM with Audio and CAC Support
PS12VDC3A	1	12VDC, 3A power adapter with center-pin positive polarity.
	1	Quick Start Guide

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IN THE USA

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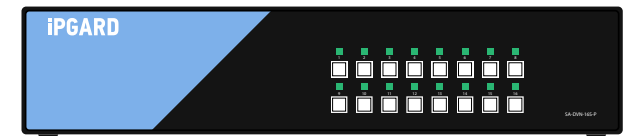
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# iPGARD™

## SA-DVN-16S-P

16 Port DVI-I secure KVM switch



Advanced 16-Port Secure  
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/](http://www.ipgard.com/documentation/)

## 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.

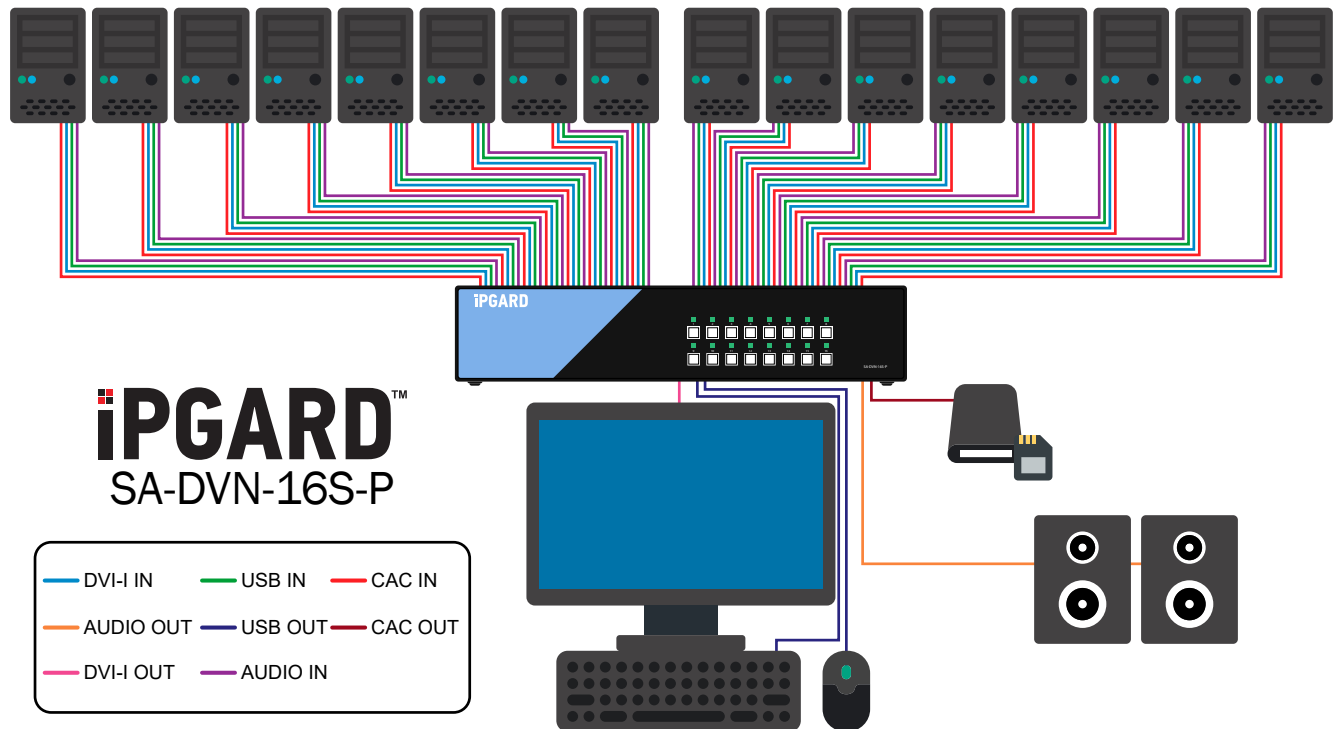


## HARDWARE INSTALLATION

1. Ensure that power is turned off or disconnected from the unit and the computers.
2. Use DVI-I cables to connect the DVI-I output ports from each computer to the corresponding DVI-I 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 DVI-I out console port of the unit using DVI-I 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. The computer connected to port 1 will always be selected by default after power up.

**Note:** You can connect up to 16 computer to the 16 port KVM.



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