2/4/8-Port USB DVI/HDMI/DisplayPort Single/Dual Display Secure KVM Switch Series

PSS PP v3.0 Secure KVM Switch Series

● ATEN PSS PP v3.0 Secure KVM Switches are specifically designed to meet the stringent security requirement of secure defense and intelligence installations. ATEN PSS PP v3.0 Secure KVM Switches are compliant with PSS PP v3.0 (Protection Profile for Peripheral Sharing Switch, Version 3.0) standard certified by the National Information Assurance Partnership (NIAP).

ATEN PSS PP v3.0 Secure KVM Switches provide isolation between computer sources and peripherals while sharing a single keyboard, mouse, monitor, speaker set, and Common Access Card (CAC) reader between connected computers of various security classifications. Compliance with PSS PP v3.0 ensures peripheral sharing capabilities provide maximum user data security when switching port focus, preventing unauthorized data flows or leakage between connected sources. Key protections include isolation and unidirectional data flow, restricted peripheral connectivity and filtering, user data protection, configurable device filtering and management, and always-on tamper-proof design, keeping sensitive assets isolated and providing advanced security and a user friendly design for instantly secure deployment.

To fulfill different customer demands, ATEN PSS PP v3.0 Secure KVM Switches offer a wide range of options including 2-port, 4-port and 8-port models, and video interfaces including DisplayPort*, HDMI, and DVI. ATEN PSS PP v3.0 Secure KVM Switches also provide customers with the flexibility to connect single or dual displays, providing up to 4K UHD (3840 × 2160 @30Hz) video quality.

With multi–layered security, ATEN PSS PP v3.0 Secure KVM Switches ensure high-level desktop security and data safekeeping for applications such as government agencies, finance, and other organizations that often handle sensitive or confidential data on separate networks.

Note: *Console video output of DisplayPort models is converted to HDMI

CS1182DP Front view

CS1182DP Rear view

CS1184H Front view

CS1184H Rear view

CS1148D Front view
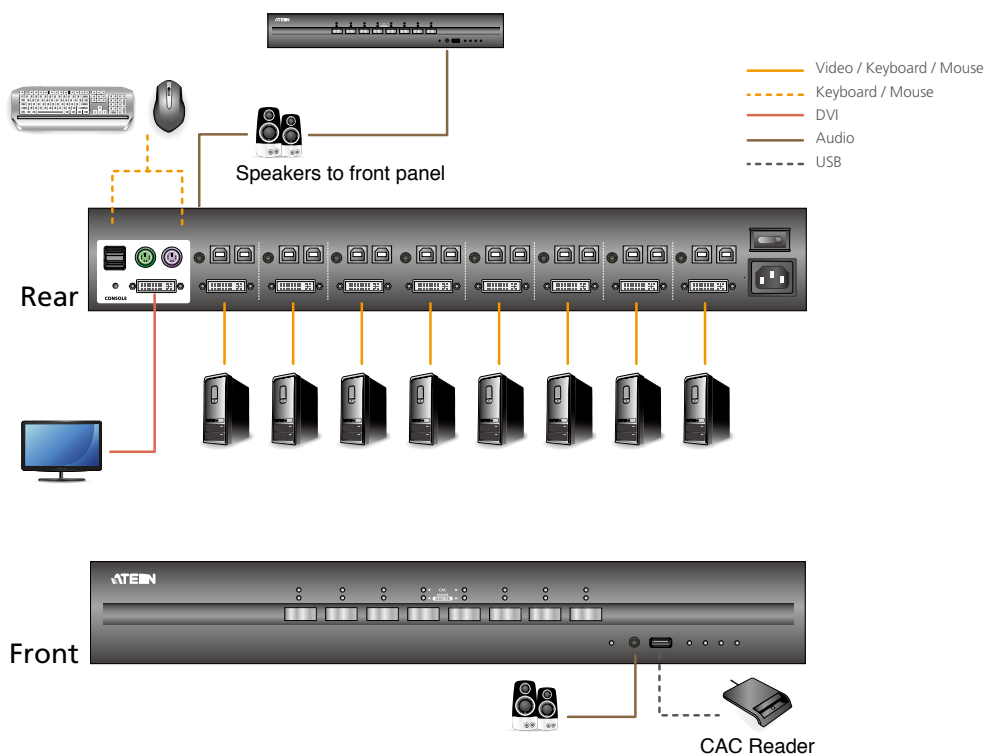
CS1148D Rear view

Features

- Superior video quality – up to 4K (3840 x 2160 @ 30 Hz)*
- Port selection via pushbuttons only to enhance security
- Video DynaSync™ – Exclusive ATEN technology eliminates boot-up display problems and optimizes resolutions when switching between ports
- Supports enable/disable CAC function by port
- LED indicators for peripheral filtering and KVM security status
- Rugged metal enclosure
- Built-in internal power
- Supports analog audio (speaker only)**

* HDMI and DisplayPort Secure KVM Switch series supports console video output resolutions up to 4K @ 30 Hz.
  DVI Secure KVM Switches offer 3840 x 2160 @ 30 Hz video output on compatible HDMI-interfaced monitors/computers with ATEN DVI-to-HDMI KVM cables.

** Only analog speaker data input is supported. The ATEN PSS PP v3.0 Secure KVM Switches does not convert digital audio to analog audio.

Highlights

NIAP Common Criteria Compliant	• Compliant with PSS PP v3.0 (Protection Profile for Peripheral Sharing Switch, Version 3.0) security requirements
Multi-Layered Security	• Restricted USB Connectivity – non-authorized HIDs (Human Interface Devices) or non-predefined CAC devices will be rejected / ignored • Always-on Chassis Intrusion Detection – renders the ATEN PSS PP v3.0 Secure KVM Switches inoperable when physical tampering is detected • Tamper-Evident Seals– provides visual indication of any attempt to access the ATEN PSS PP v3.0 Secure KVM Switches' internal components • Non-Reprogrammable Firmware – prevents reprogramming the ATEN PSS PP v3.0 Secure KVM Switches
Data Channel Isolation and Unidirectional Data Flow	• Data Channel Isolation – prevents data leakage between connected computers via isolated channel per port • Unidirectional Data Flow – ensures unidirectional data flow between the console devices and the selected computer • ATEN PSS PP v3.0 Secure KVM Switches control and isolate data flow between the console devices and connected computers
User Data Protection	• User Data Protection – Keyboard/Mouse data buffer is automatically purged when switching KVM port focus
Security Management	• KVM Log Data – provides administrative functions for authorized administrator to audit KVM log data • Configurable Device Filtering – USB CAC Port can be configured to allow/reject whitelisted / blacklisted devices via Admin logon function or Windows-based application

Speakers to front panel

Video / Keyboard / Mouse
Keyboard / Mouse
DVI
Audio
USB

Rear

Front

CAC Reader

Specifications

ATEN PSS PP v3.0 DisplayPort Secure KVM Switches

Function	CS1182DP	CS1184DP	CS1188DP
Computer Connections	2	4	8
Port Selection	Pushbutton		
Connectors			
Console Ports	2 x USB Type-A Female (Black) 1 x 6-pin Mini-DIN Female (Purple) 1 x 6-pin Mini-DIN Female (Green) 1 x HDMI Female (White) 1 x Mini Stereo Jack Female (Green; front panel)		2 x USB Type-A Female (White) 1 x 6-pin Mini-DIN Female (Purple) 1 x 6-pin Mini-DIN Female (Green) 1 x HDMI Female (White) 1 x Mini Stereo Jack Female (Green; front panel)
KVM Ports	4 x USB Type-B Female (White)	8 x USB Type-B Female (White)	16 x USB Type-B Female (White)
	2 x DisplayPort Female (Black)	4 x DisplayPort Female (Black)	8 x DisplayPort Female (Black)
	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)	8 x Mini Stereo Jack Female (Green)
Power	1 x 3-prong AC Socket		
USB CAC Port	1 x USB Type-A Female (White; front panel)		
Switches			
Port Selection	2 x Pushbuttons	4 x Pushbuttons	8 x Pushbuttons
Reset	1 x Semi-recessed Pushbutton		
Power	1 x Rocker		
LEDs			
On Line / Selected (KVM Port)	2 (Orange)	4 (Orange)	8 (Orange)
Online / Selected (CAC Port)	2 (Green)	4 (Green)	8 (Green)
Video	1 (Green)		
Key Lock	3 (Green)		
Power	1 (Blue)		
Emulation			
Keyboard / Mouse	USB		
Video	Max. 3840 x 2160 @ 30 Hz (UHD)		
Maximum Input Power Rating	100–240V~; 50-60 Hz; 1A		
Power Consumption	AC110V:3.8W AC220V:3.8W	AC110V:5W AC220V:4.7W	AC110V:10W AC220V:9.4W
Environmental			
Operating Temperature	0-50°C		
Storage Temperature	-20-60°C		
Humidity	0 - 80% RH, Non-condensing		
Physical Properties			
Housing	Metal		
Weight	1.78 kg	1.79 kg	3.05 kg
Dimensions (L x W x H)	33.50 x 16.40 x 4.40 cm	33.50 x 16.40 x 4.40 cm	43.20 x 20.50 x 6.60 cm

ATEN PSS PP v3.0 DisplayPort Dual Display Secure KVM Switches

Function	CS1142DP	CS1144DP	CS1148DP
Computer Connections	2	4	8
Port Selection	Pushbutton		
Connectors			
Console Ports	2 x USB Type-A Female (Black) 1 x 6-pin Mini-DIN Female (Purple) 1 x 6-pin Mini-DIN Female (Green) 2 x HDMI Female (Black) 1 x Mini Stereo Jack Female (Green; front panel)		2x USB Type-A Female (White) 1 x 6-pin Mini-DIN Female (Purple) 1 x 6-pin Mini-DIN Female (Green) 2 x HDMI Female (Black) 1 x Mini Stereo Jack Female (Green; front panel)
KVM Ports	4 x USB Type-B Female (White)	8 x USB Type-B Female (White)	16 x USB Type-B Female (White)
	4 x DisplayPort Female (Black)	8 x DisplayPort Female (Black)	16 x DisplayPort Female (Black)
	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)	8 x Mini Stereo Jack Female (Green)
Power	1 x 3-prong AC Socket		
USB CAC Port	1 x USB Type-A Female (White; front panel)		
Switches			
Port Selection	2 x Pushbuttons	4 x Pushbuttons	8 x Pushbuttons
Reset	1 x Semi-recessed Pushbutton		
Power	1 x Rocker		
LEDs			
On Line / Selected (KVM Port)	2 (Orange)	4 (Orange)	8 (Orange)
Online / Selected (CAC Port)	2 (Green)	4 (Green)	8 (Green)
Video	2 (Green)		
Key Lock	3 (Green)		
Power	1 (Blue)		
Emulation			
Keyboard / Mouse	USB		
Video	Max. 3840 x 2160 @ 30 Hz (UHD)		
Maximum Input Power Rating	100–240V~; 50-60 Hz; 1A		
Power Consumption	AC110V:5.5W AC220V:5.3W	AC110V:8.2W AC220V:8W	AC110V:16W AC220V:16W
Environmental			
Operating Temperature	0-50°C		
Storage Temperature	-20-60°C		
Humidity	0 - 80% RH, Non-condensing		
Physical Properties			
Housing	Metal		
Weight	2.12 kg	2.13 kg	3.35 kg
Dimensions (L x W x H)	33.50 x 16.40 x 6.60 cm	33.50 x 16.40 x 6.60 cm	43.20 x 20.50 x 6.60 cm

ATEN PSS PP v3.0 HDMI Secure KVM Switches

Function	CS1182H	CS1184H	CS1188H
Computer Connections	2	4	8
Port Selection	Pushbutton		
Connectors			
Console Ports	2 x USB Type-A Female (Black) 1 x 6-pin Mini-DIN Female (Purple) 1 x 6-pin Mini-DIN Female (Green) 1 x HDMI Female (Black) 1 x Mini Stereo Jack Female (Green; front panel)		2 x USB Type-A Female (White) 1 x 6-pin Mini-DIN Female (Purple) 1 x 6-pin Mini-DIN Female (Green) 1 x HDMI Female (Black) 1 x Mini Stereo Jack Female (Green; front panel)
KVM Ports	4 x USB Type-B Female (White)	8 x USB Type-B Female (White)	16 x USB Type-B Female (White)
	2 x HDMI Female (Black)	4 x HDMI Female (Black)	8 x HDMI Female (Black)
	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)	8 x Mini Stereo Jack Female (Green)
Power	1 x 3-prong AC Socket		
USB CAC Port	1 x USB Type-A Female (White; front panel)		
Switches			
Port Selection	2 x Pushbuttons	4 x Pushbuttons	8 x Pushbuttons
Reset	1 x Semi-recessed Pushbutton		
Power	1 x Rocker		
LEDs			
On Line / Selected (KVM Port)	2 (Orange)	4 (Orange)	8 (Orange)
Online / Selected (CAC Port)	2 (Green)	4 (Green)	8 (Green)
Video	1 (Green)		
Key Lock	3 (Green)		
Power	1 (Blue)		
Emulation			
Keyboard / Mouse	USB		
Video	Max. 3840 x 2160 @ 30 Hz (UHD) ; 1920 x 1080 (FHD)		
Maximum Input Power Rating	100–240V~; 50-60 Hz; 1A		
Power Consumption	AC110V:2.8W AC220V:2.4W	AC110V:3W AC220V:3.1W	AC110V:6W AC220V:6.2W
Environmental			
Operating Temperature	0-50°C		
Storage Temperature	-20-60°C		
Humidity	0 - 80% RH, Non-condensing		
Physical Properties			
Housing	Metal		
Weight	1.78 kg	1.79 kg	3.05 kg
Dimensions (L x W x H)	33.50 x 16.40 x 4.40 cm	33.50 x 16.40 x 4.40 cm	43.20 x 20.50 x 6.60 cm

ATEN PSS PP v3.0 HDMI Dual Display Secure KVM Switches

Function	CS1142H	CS1144H	CS1148H
Computer Connections	2	4	8
Port Selection	Pushbutton		
Connectors			
Console Ports	2 x USB Type-A Female (Black) 1 x 6-pin Mini-DIN Female (Purple) 1 x 6-pin Mini-DIN Female (Green) 2 x HDMI Female (Black) 1 x Mini Stereo Jack Female (Green; front panel)		2 x USB Type-A Female (White) 1 x 6-pin Mini-DIN Female (Purple) 1 x 6-pin Mini-DIN Female (Green) 2 x HDMI Female (Black) 1 x Mini Stereo Jack Female (Green; front panel)
KVM Ports	4 x USB Type-B Female (White)	8 x USB Type-B Female (White)	16 x USB Type-B Female (White)
	4 x HDMI Female (Black)	8 x HDMI Female (Black)	16 x HDMI Female (Black)
	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)	8 x Mini Stereo Jack Female (Green)
Power	1 x 3-prong AC Socket		
USB CAC Port	1 x USB Type-A Female (White; front panel)		
Switches			
Port Selection	2 x Pushbuttons	4 x Pushbuttons	8 x Pushbuttons
Reset	1 x Semi-recessed Pushbutton		
Power	1 x Rocker		
LEDs			
On Line / Selected (KVM Port)	2 (Orange)	4 (Orange)	8 (Orange)
Online / Selected (CAC Port)	2 (Green)	4 (Green)	8 (Green)
Video	2 (Green)		
Key Lock	3 (Green)		
Power	1 (Blue)		
Emulation			
Keyboard / Mouse	USB		
Video	Max. 3840 x 2160 @ 30 Hz (UHD) ; 1920 x 1080 (FHD)		
Maximum Input Power Rating	100–240V~; 50-60 Hz; 1A		
Power Consumption	AC110V:4.5W AC220V:4.2W	AC110V:3.9W AC220V:3.6W	AC110V:8W AC220V:7.2W
Environmental			
Operating Temperature	0-50°C		
Storage Temperature	-20-60°C		
Humidity	0 - 80% RH, Non-condensing		
Physical Properties			
Housing	Metal		
Weight	2.12 kg	2.13 kg	3.35 kg
Dimensions (L x W x H)	33.50 x 16.40 x 6.60 cm	33.50 x 16.40 x 6.60 cm	43.20 x 20.50 x 6.60 cm

ATEN PSS PP v3.0 DVI Secure KVM Switches

Function	CS1182D	CS1184D	CS1188D
Computer Connections	2	4	8
Port Selection	Pushbutton		
Connectors			
Console Ports	2 x USB Type-A Female (Black) 1 x 6-pin Mini-DIN Female (Purple) 1 x 6-pin Mini-DIN Female (Green) 1 x DVI-I Dual Link Female (White) 1 x Mini Stereo Jack Female (Green; front panel)		2 x USB Type-A Female (White) 1 x 6-pin Mini-DIN Female (Purple) 1 x 6-pin Mini-DIN Female (Green) 1 x DVI-I Dual Link Female (White) 1 x Mini Stereo Jack Female (Green; front panel)
KVM Ports	4 x USB Type-B Female (White)	8 x USB Type-B Female (White)	16 x USB Type-B Female (White)
	2 x DVI-I Dual Link Female (White)	4 x DVI-I Dual Link Female (White)	8 x DVI-I Dual Link Female (White)
	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)	8 x Mini Stereo Jack Female (Green)
Power	1 x 3-prong AC Socket		
USB CAC Port	1 x USB Type-A Female (White; front panel)		
Switches			
Port Selection	2 x Pushbuttons	4 x Pushbuttons	8 x Pushbuttons
Reset	1 x Semi-recessed Pushbutton		
Power	1 x Rocker		
LEDs			
On Line / Selected (KVM Port)	2 (Orange)	4 (Orange)	8 (Orange)
Online / Selected (CAC Port)	2 (Green)	4 (Green)	8 (Green)
Video	1 (Green)		
Key Lock	3 (Green)		
Power	1 (Blue)		
Emulation			
Keyboard / Mouse	USB		
Video	3840x2160@30Hz*; DVI Dual Link: 2560x1600; DVI Single Link: 1920x1200 DVI-A: 2048x1536		
Maximum Input Power Rating	100–240V~; 50-60 Hz; 1A		
Power Consumption	AC110V:4.4W AC220V:4.4W	AC110V:5.4W AC220V:5.4W	AC110V:8.3W AC220V:8.2W
Environmental			
Operating Temperature	0-50°C		
Storage Temperature	-20-60°C		
Humidity	0 - 80% RH, Non-condensing		
Physical Properties			
Housing	Metal		
Weight	1.78 kg	1.79 kg	3.05 kg
Dimensions (L x W x H)	33.50 x 16.40 x 4.40 cm	33.50 x 16.40 x 4.40 cm	43.20 x 20.50 x 6.60 cm

Note: * DVI Secure KVM Switches offer 3840 x 2160 @ 30 Hz video output on compatible HDMI-interfaced monitors/computers with ATEN DVI-to-HDMI KVM cables.

ATEN PSS PP v3.0 DVI Dual Display Secure KVM Switches

Function	CS1142D	CS1144D	CS1148D
Computer Connections	2	4	8
Port Selection	Pushbutton		
Connectors			
Console Ports	2 x USB Type-A Female (Black) 1 x 6-pin Mini-DIN Female (Purple) 1 x 6-pin Mini-DIN Female (Green) 2 x DVI-I Dual Link Female (White) 1 x Mini Stereo Jack Female (Green; front panel)		2 x USB Type-A Female (White) 1 x 6-pin Mini-DIN Female (Purple) 1 x 6-pin Mini-DIN Female (Green) 2 x DVI-I Dual Link Female (White) 1 x Mini Stereo Jack Female (Green; front panel)
KVM Ports	4 x USB Type-B Female (White)	8 x USB Type-B Female (White)	16 x USB Type-B Female (White)
	4 x DVI-I Dual Link Female (White)	8 x DVI-I Dual Link Female (White)	16 x DVI-I Dual Link Female (White)
	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)	8 x Mini Stereo Jack Female (Green)
Power	1 x 3-prong AC Socket		
USB CAC Port	1 x USB Type-A Female (White; front panel)		
Switches			
Port Selection	2 x Pushbuttons	4 x Pushbuttons	8 x Pushbuttons
Reset	1 x Semi-recessed Pushbutton		
Power	1 x Rocker		
LEDs			
On Line / Selected (KVM Port)	2 (Orange)	4 (Orange)	8 (Orange)
Online / Selected (CAC Port)	2 (Green)	4 (Green)	8 (Green)
Video	2 (Green)		
Key Lock	3 (Green)		
Power	1 (Blue)		
Emulation			
Keyboard / Mouse	USB		
Video	3840x2160@30Hz*; DVI Dual Link: 2560x1600; DVI Single Link: 1920x1200 DVI-A: 2048x1536		
Maximum Input Power Rating	100–240V~; 50-60 Hz; 1A		
Power Consumption	AC110V:5.8W AC220V:5.6W	AC110V:8.2W AC220V:7.8W	AC110V:17.6W AC220V:17.7W
Environmental			
Operating Temperature	0-50°C		
Storage Temperature	-20-60°C		
Humidity	0 - 80% RH, Non-condensing		
Physical Properties			
Housing	Metal		
Weight	2.12 kg	2.13 kg	3.35 kg
Dimensions (L x W x H)	33.50 x 16.40 x 6.60 cm	33.50 x 16.40 x 6.60 cm	43.20 x 20.50 x 6.60 cm

Note: * DVI Secure KVM Switches offer 3840 x 2160 @ 30 Hz video output on compatible HDMI-interfaced monitors/computers with ATEN DVI-to-HDMI KVM cables.

Product information is subject to change without prior notice.

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