

CS1148D4

8-Port USB DVI Dual Display Secure KVM Switch (PSD PP v4.0 Compliant)



ATEN PSD PP v4.0 Secure KVM Switch CS1148D4 is specifically designed to meet the stringent security requirement of secure defense and intelligence installations. ATEN PSD PP v4.0 Secure KVM Switch CS1148D4 is compliant with PSD PP v4.0 (Protection Profile for Peripheral Sharing Device, Version 4.0) standard certified by the National Information Assurance Partnership (NIAP).

ATEN PSD PP v4.0 Secure KVM Switch CS1148D4 provides isolation between computer sources and peripherals while sharing a single keyboard, mouse, monitor, and speaker set between connected computers of various security classifications. Compliance with PSD PP v4.0 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 filtration and management, strict audio filtration, and always-on tamper-proof design, keeping sensitive assets isolated and providing advanced security and a user friendly design for instantly secure deployment.

To enhance security, ATEN PSD PP v4.0 Secure KVM Switch CS1148D4 only offers manual switching methods including front panel pushbuttons and layered security, ATEN PSD PP v4.0 Secure KVM Switch CS1148D4 ensures high-level desktop security and data safekeeping for applications such as government and military agencies, healthcare providers, banking and finance institutions, and other organizations that often handle sensitive or confidential data on separate networks.

Note:

1. The Remote Port Selector is not supplied in the package and requires a separate purchase.











Features

NIAP Common Criteria Compliant

• Compliant with PSD PP v4.0 (Protection Profile for Peripheral Sharing Device, Version 4.0) security requirements

Multi-Layered Security

- · Always-on chassis intrusion detection renders the ATEN PSD PP v4.0 Secure KVM Switch series inoperable when physical tampering is detected
- Tamper-evident labels provides visual indication of any attempt to access the ATEN PSD PP v4.0 Secure KVM Switch's internal components
- Non-reprogrammable firmware prevents reprogramming the ATEN PSD PP v4.0 Secure KVM Switch's firmware
 Restricted peripheral connectivity non-authorized HIDs (Human Interface Devices), and video are rejected
- Port selection via pushbuttons / Remote Port Selector (RPS) ¹ only to enhance security
 LED indicators for peripheral filtering and KVM security status
 Strict audio filtration protects against audio leakage

- Rugged metal enclosure

· Data Channel Isolation and Unidirectional Data Flow

- True data path isolation data cannot be transferred between computers
- The ATEN PSD PP v4.0 Secure KVM Switch controls and isolates data flow between console devices and connected computers
 Unidirectional data flow between console devices and the selected computer is ensured
- $\,\circ\,$ Supports analog audio (speaker only) 2

User Data Protection

• The ATEN PSD PP v4.0 Secure KVM Switch's keyboard / mouse data is automatically deleted after transmission and automatically purged when the KVM port focus is switched

Security Management

- · Supports administrative configuration of keyboard / mouse ports filtering to reject specific USB HID devices
- Provides administrative functions for authorized administrators to audit KVM log data

Superior Video Quality

- $_{\circ}$ Superior video quality up to 4K (3840 x 2160 @ 30 Hz) 3
- Video DynaSync™ Exclusive ATEN technology eliminates boot-up display problems and optimizes resolutions when switching among different sources
- 1. The Remote Port Selector is not supplied in the package and requires a separate purchase.
- 2. Only analog speaker data input is supported.
 3. The DVI Secure KVM Switch series offers up to 3840 x 2160 @ 30 Hz video output on compatible HDMI-interfaced monitors / computers with ATEN DVI-to-HDMI KVM cables.

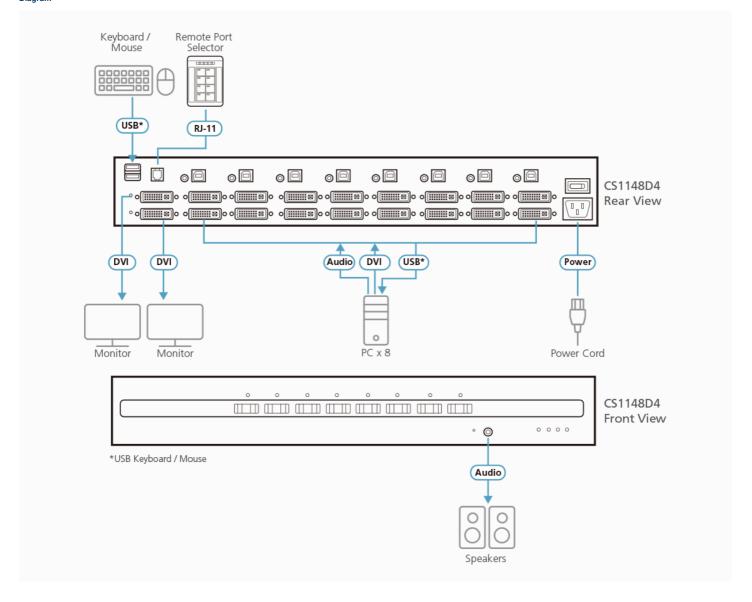


Specifications

Consider Contections Publishabitor, Remade Port Selector Connectors Connectors Connectors 2 y USV Data Lask Feating (Wintle) 1 x Mast Service Ask Feating (Wintle) 2 x USS Type-A Feating (Wintle) 1 x Mast Service Jack Feating (Wintle) 1 x Jack Jack Jack Feating (Wintle) 1 x Jack Jack Jack Jack Jack Jack Jack Jack	0 1 0 "	
Corrections	Computer Connections	8
Carriade Ports 2 x DVH Chual Link Fernate 2 x NBS Type-A Frenate (Cleant York panel)		Pushbutton, Remote Port Selector
EVAIL Ports 2 x 1.000 Tayes A Francis (Paris) front panels	Connectors	
Power	Console Ports	2 x USB Type-A Female (White)
Number Port Selection	KVM Ports	16 x DVI-I Dual Link Female
Post Selection	Power	1 x 3-prong AC Socket
Port Selection 8 × Pushbuttons Rissel 1 x Semi rocessed Pushbutton Power 1 x Rocker LEDs	Remote Port Selector	1 x RJ-11 (Black; rear panel)
Reset	Switches	
Power	Port Selection	8 x Pushbuttons
Power	Reset	1 x Semi-recessed Pushbutton
Note	Power	1 x Rocker
Online / Selected (KVM Port) Vidoo 2 (Green) Key Lock 3 (Green) Emulation Keyboard / Mouse USB Video Max. 3840 x 2160 @ 30 Hz (UHD)* DVI Dual Link: 2560 x 1600; DVI Single Link: 1920 x 1200 DVI Single Link: 1920 x	LEDs	
Port) 2 (Green) Key Lock 3 (Green) Emulation Keyboard / Mouse USB Video Max. 3840 x 2160 @ 30 Hz (UHD)* DVI Dual Link: 2560 x 1500; DVI Single Link: 1920 x 1200 DVI Dual Link: 2560 x 1500; DVI Single Link: 1920 x 1200 DVI Single Link: 1920 x 120	Power	1 (Green)
Emulation Keyboard / Mouse USB Max. 3840 x 2160 @ 30 Hz (UHD)* DVD Dust Link: 2560 x 1600: DVH 2504 x 1536 Maximum Input Power Rating Acceptable Accep		8 (Orange)
Emulation Keyboard / Mouse USB Video Max. 3840 x 2160 @ 30 Hz (UHD)* DVD Dust Link: 2860 x 1800 DVD DVD DVD DVD DVD DVD DVD DVD DVD D	Video	2 (Green)
Keyboard / Mouse USB Video Max 3840 x 2160 @ 30 Hz (UHD)* DVI Dual Link: 2560 x 1500; DVI Single Link: 1920 x 1200 DVI-A: 2048 x 1536 Maximum Input Power Rating 100-240V-; 50-60 Hz; 1A Power Consumption AC110V:15.9W-828TU/h AC220V:16W-838TU/h AC220V:16W-838TU/h Indicates the typical power consumption of the device with no external loading.	Key Lock	3 (Green)
Video Max. 3840 x 2160 @ 30 Hz (UHD)* DVI Dual Link: 2560 x 1600; DVI Single Link: 1920 x 1200 DVI-A: 2045 x 1536 Maximum Input Power Rating 100–240V~; 50-60 Hz; 1A Power Consumption AC110V:15.9W:828TU/h AC220V:16W:83BTU/h Note:	Emulation	
DVI Dual Link: 2560 x 1600: DVI Single Link: 1920 x 1200 DVI-A: 2048 x 1536 Maximum Input Power Rating Power Consumption AC110V:15.9W:82BTU/h AC220V16W:83BTU/h Note: • The measurement in Watts indicates the typical power consumption of the device with no external loading. • The measurement in BTU/h indicates the power consumption of the device when it is fully loaded. Environmental Operating Temperature 0-50°C Storage Temperature -20-60°C Humidity 0 -80% RH, Non-condensing Physical Properties Housing Metal Weight 3.33 kg (7.33 lb) Dimensions (L x W x H) 43.24 x 20.49 x 6.55 cm (17.02 x 8.07 x 2.58 in.) Note * DVI Secure KVM Switches support up to 3840 x 2160 @ 30 Hz video output on compatible HDMI-interfaced monitors/computers with ATEN DVI-to-HDMI KVM cables.	Keyboard / Mouse	USB
Power Consumption AC110V:15.9W:82BTU/h AC220V:16W:83BTU/h Note: • The measurement in Watts indicates the typical power consumption of the device with no external loading. • The measurement in BTU/h indicates the power consumption of the device when it is fully loaded. Environmental Operating Temperature O-50°C Storage Temperature -20-60°C Humidity 0 -80% RH, Non-condensing Physical Properties Housing Metal Weight 3.33 kg (7.33 lb) Dimensions (L x W x H) Viscoure KVM Switches support up to 3840 x 2160 @ 30 Hz video output on compatible HDMI-interfaced monitors/computers with ATEN DVI-to-HDMI KVM cables.	Video	DVI Dual Link: 2560 x 1600; DVI Single Link: 1920 x 1200
AC220V:16W:83BTU/h Note: The measurement in Watts indicates the typical power consumption of the device with no external loading. The measurement in BTU/h indicates the power consumption of the device when it is fully loaded. Environmental Operating Temperature 0-50°C Storage Temperature -20-60°C Humidity 0 -80% RH, Non-condensing Physical Properties Housing Metal Weight 3.33 kg (7.33 lb) Dimensions (L x W x H) 43.24 x 20.49 x 6.55 cm (17.02 x 8.07 x 2.58 in.) Note *OVI Secure KVM Switches support up to 3840 x 2160 @ 30 Hz video output on compatible HDMI-interfaced monitors/computers with ATEN DVI-to-HDMI KVM cables.		100–240V~; 50-60 Hz; 1A
The measurement in Watts indicates the typical power consumption of the device with no external loading. The measurement in BTU/h indicates the power consumption of the device when it is fully loaded. Environmental Operating Temperature 0-50°C Storage Temperature -20-60°C Humidity 0 - 80% RH, Non-condensing Physical Properties Housing Metal Weight 3.33 kg (7.33 lb) Dimensions (L x W x H) 43.24 x 20.49 x 6.55 cm (17.02 x 8.07 x 2.58 in.) Note *DVI Secure KVM Switches support up to 3840 x 2160 @ 30 Hz video output on compatible HDMI-interfaced monitors/computers with ATEN DVI-to-HDMI KVM cables.	Power Consumption	AC220V:16W:83BTU/h
Operating Temperature 0-50°C Storage Temperature -20-60°C Humidity 0-80% RH, Non-condensing Physical Properties Housing Metal Weight 3.33 kg (7.33 lb) Dimensions (L x W x H) 43.24 x 20.49 x 6.55 cm (17.02 x 8.07 x 2.58 in.) Note *DVI Secure KVM Switches support up to 3840 x 2160 @ 30 Hz video output on compatible HDMI-interfaced monitors/computers with ATEN DVI-to-HDMI KVM cables.		• The measurement in Watts indicates the typical power consumption of the device with no external loading.
Storage Temperature -20-60°C Humidity 0 - 80% RH, Non-condensing Physical Properties Housing Metal Weight 3.33 kg (7.33 lb) Dimensions (L x W x H) 43.24 x 20.49 x 6.55 cm (17.02 x 8.07 x 2.58 in.) Note * DVI Secure KVM Switches support up to 3840 x 2160 @ 30 Hz video output on compatible HDMI-interfaced monitors/computers with ATEN DVI-to-HDMI KVM cables.	Environmental	
Humidity 0 - 80% RH, Non-condensing Physical Properties Housing Metal Weight 3.33 kg (7.33 lb) Dimensions (L x W x H) 43.24 x 20.49 x 6.55 cm (17.02 x 8.07 x 2.58 in.) Note *DVI Secure KVM Switches support up to 3840 x 2160 @ 30 Hz video output on compatible HDMI-interfaced monitors/computers with ATEN DVI-to-HDMI KVM cables.	Operating Temperature	0-50°C
Physical Properties Housing Metal Weight 3.33 kg (7.33 lb) Dimensions (L x W x H) 43.24 x 20.49 x 6.55 cm (17.02 x 8.07 x 2.58 in.) Note *DVI Secure KVM Switches support up to 3840 x 2160 @ 30 Hz video output on compatible HDMI-interfaced monitors/computers with ATEN DVI-to-HDMI KVM cables.	Storage Temperature	-20-60°C
Housing Metal Weight 3.33 kg (7.33 lb) Dimensions (L x W x H) 43.24 x 20.49 x 6.55 cm (17.02 x 8.07 x 2.58 in.) Note *DVI Secure KVM Switches support up to 3840 x 2160 @ 30 Hz video output on compatible HDMI-interfaced monitors/computers with ATEN DVI-to-HDMI KVM cables.	Humidity	0 - 80% RH, Non-condensing
Weight 3.33 kg (7.33 lb) Dimensions (L x W x H) 43.24 x 20.49 x 6.55 cm (17.02 x 8.07 x 2.58 in.) Note *DVI Secure KVM Switches support up to 3840 x 2160 @ 30 Hz video output on compatible HDMI-interfaced monitors/computers with ATEN DVI-to-HDMI KVM cables.	Physical Properties	
Dimensions (L x W x H) 43.24 x 20.49 x 6.55 cm (17.02 x 8.07 x 2.58 in.) Note * DVI Secure KVM Switches support up to 3840 x 2160 @ 30 Hz video output on compatible HDMI-interfaced monitors/computers with ATEN DVI-to-HDMI KVM cables.	Housing	Metal
(17.02 x 8.07 x 2.58 in.) Note * DVI Secure KVM Switches support up to 3840 x 2160 @ 30 Hz video output on compatible HDMI-interfaced monitors/computers with ATEN DVI-to-HDMI KVM cables.	Weight	3.33 kg (7.33 lb)
KVM cables.	Dimensions (L x W x H)	
Note For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.	Note	* DVI Secure KVM Switches support up to 3840 x 2160 @ 30 Hz video output on compatible HDMI-interfaced monitors/computers with ATEN DVI-to-HDMI KVM cables.
	Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.



Diagram



ATEN International Co., Ltd.

3F., No.125, Sec. 2, Datong Rd., Sijhih District., New Taipei City 221, Taiwan Phone: 886-2-8692-6789 Fax: 886-2-8692-6767

www.aten.com E-mail: marketing@aten.com



© Copyright 2015 ATEN® International Co., Ltd. ATEN and the ATEN logo are trademarks of ATEN International Co., Ltd. All rights reserved. All other trademarks are the property of their respective owners.