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ATEN CS1142DP4 2 Port USB Display Port Dual Display Secure KVM Switch User Guide

Contents

ATEN CS1142DP4 2 Port USB Display Port Dual Display Secure KVM Switch

Product Information

Specifications

- Model: CS1142DP4

- Product Type: 2-Port USB DisplayPort Dual Display Secure KVM Switch
- Compliance: NIAP Common Criteria, PSD PP v4.0
- Security Features: Multi-Layered Security, Data Channel Isolation, Unidirectional Data Flow, User Data Protection, Security Management
- Video Quality: Superior

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
- Data Channel Isolation and Unidirectional Data Flow
- User Data Protection
- Security Management
- Superior Video Quality

Physical Properties

- Housing: Metal
- Weight: 2.07 kg (4.56 lb)
- Dimensions (L x W x H): 33.50 x 16.39 x 6.55 cm (13.19 x 6.45 x 2.58 in.)

Connectors

- Console Ports:
    - 2 x DisplayPort Female (Black)
    - 2 x USB Type-A Female (White)
    - 1 x Mini Stereo Jack Female (Green; front panel)
- KVM Ports:
    - 4 x DisplayPort Female (Black)
    - 2 x USB Type-B Female (White)
    - 2 x Mini Stereo Jack Female (Green)
- Power:
    - 1 x 3-prong AC Socket
    - 1 x RJ-11 (Black; rear panel)

Switches

- Port Selection: 2 Pushbutton, Remote Port Selector
- Reset Power: 1 x Semi-recessed Pushbutton
- Power LEDs: 1 (Green)
- Online / Selected (KVM Port) LEDs: 2 (Orange)
- Video Key Lock Emulation: 2 (Green)

Power

- Maximum Input Power Rating: AC110V:9.89W:68BTU,AC220V:10.19W:70BTU
- Power Consumption: N/A

Environmental

- Operating Temperature: N/A
- Storage Temperature: N/A
- Humidity: N/A

Note

For some of the rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.

Product Usage Instructions

Connection

1. Connect your computer's DisplayPort and USB Type-A ports to the Console Ports of the KVM switch using the provided cables.
2. Connect your DisplayPort monitors and USB Type-B devices to the KVM Ports of the switch using the appropriate cables.
3. Connect your speakers or headphones to the Mini Stereo Jack Female port on the front panel of the KVM switch.
4. Connect the power cable to the 3-prong AC Socket on the rear panel of the switch.
5. If required, connect the Remote Port Selector to the RJ-11 port on the rear panel of the switch.

Switching between Computers
To switch between connected computers:

1. Press the desired port selection pushbutton on the switch or use the Remote Port Selector.
2. The selected computer's video output will be displayed on the connected monitors.
3. The selected computer's keyboard and mouse will be active for input.

Power Reset
If required, press the Semi-recessed Pushbutton to reset the power of the KVM switch.

Video Key Lock Emulation
If you need to lock or unlock the video output from a specific computer, press the corresponding Video Key Lock Emulation pushbutton on the switch.

Security Management
To configure keyboard/mouse port filtering or audit KVM log data, refer to the user manual for detailed instructions on using the administrative functions of the ATEN PSD PP v4.0 Secure KVM Switch.

FAQ

- Q: What is PSD PP v4.0?
- PSD PP v4.0 stands for Protection Profile for Peripheral Sharing Device, Version 4.0. It is a security standard that the ATEN PSD PP v4.0 Secure KVM Switch complies with.
- Q: Can I connect multiple monitors to the KVM switch?
- Yes, the KVM switch supports dual display setup with two DisplayPort monitors.
- Q: How do I reset the power of the KVM switch?
- You can press the Semi-recessed Pushbutton on the switch to reset the power.
- Q: Can I lock the video output from a specific computer?
- Yes, you can use the Video Key Lock Emulation pushbuttons to lock or unlock the video output from a specific computer.
- Q: How do I configure keyboard/mouse port filtering or audit KVM log data?
- Please refer to the user manual for detailed instructions on using the administrative functions of the ATEN PSD PP v4.0 Secure KVM Switch for security management tasks.

CS1142DP4
2-Port USB DisplayPort Dual Display Secure KVM Switch (PSD PP v4.0 Compliant)

ATEN PSD PP v4.0 Secure KVM Switch CS1142DP4 is specifically designed to meet the stringent security requirement of secure defense and intelligence installations. ATEN PSD PP v4.0 Secure KVM Switch CS1142DP4 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 CS1142DP4 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 CS1142DP4 only offers manual switching methods including front panel pushbuttons and Remote Port

Selector (RPS) 1. With multi–layered security, ATEN PSD PP v4.0 Secure KVM Switch CS1142DP4 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), 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
- 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

- Superior video quality – up to 4K (3840 x 2160 @ 30Hz) 3
- Video DynaSync™ –Exclusive ATEN technology eliminates boot-up display problems and optimizes resolutions when switching among different sources
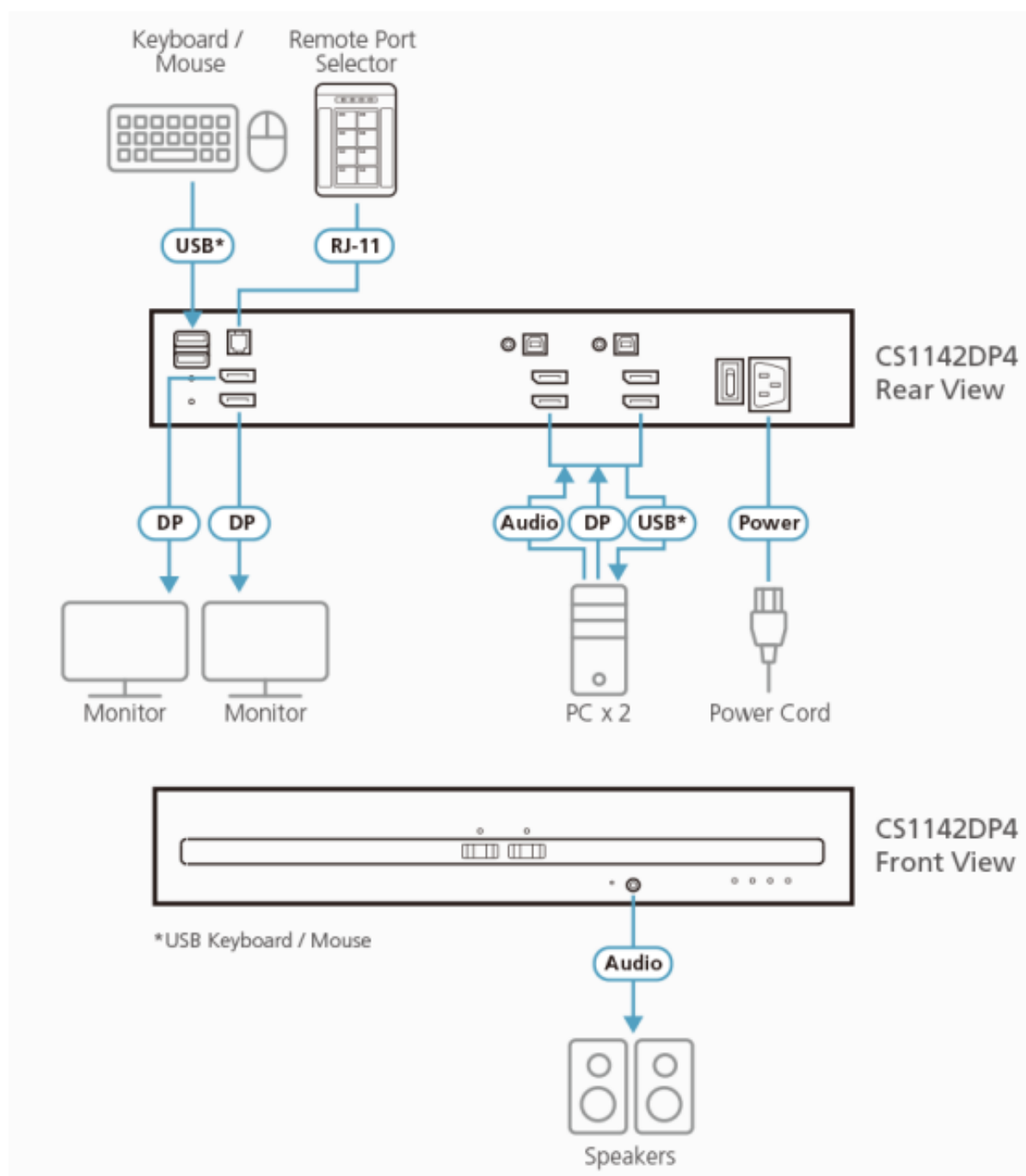
1. The Remote Port Selector is not supplied in the package and requires a separate purchase.
2. Only analog speaker data input is supported.
3. The DisplayPort Secure KVM Switch series supports console video output resolutions up to 3840 x 2160 @ 30 Hz.

Specifications

Computer Connections	2
Port Selection	Pushbutton, Remote Port Selector
Connectors	
Console Ports	2 x DisplayPort Female (Black) 2 x USB Type-A Female (White) 1 x Mini Stereo Jack Female (Green; front panel)
KVM Ports	2 x USB Type-B Female (White) 4 x DisplayPort Female (Black) 2 x Mini Stereo Jack Female (Green)
Power	1 x 3-prong AC Socket
Remote Port Selector	1 x RJ-11 (Black; rear panel)
Switches	
Port Selection	2 x Pushbuttons
Reset	1 x Semi-recessed Pushbutton
Power	1 x Rocker
LEDs	
Power	1 (Green)
Online / Selected (KVM Port)	2 (Orange)
Video	2 (Green)
Key Lock	3 (Green)
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:9.89W:68BTU AC220V:10.19W:70BTU
Environmental	
Operating Temperature	0-50°C
Storage Temperature	-20-60°C
Humidity	0 – 80% RH, Non-condensing

Physical Properties	
Housing	Metal
Weight	2.07 kg (4.56 lb)
Dimensions (L x W x H)	33.50 x 16.39 x 6.55 cm (13.19 x 6.45 x 2.58 in.)
Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.

Diagram

Documents / Resources

	ATEN CS1142DP4 2 Port USB Display Port Dual Display Secure KVM Switch [pdf] User Guide CS1142DP4 2 Port USB Display Port Dual Display Secure KVM Switch, CS1142DP4, 2 Port USB Display Port Dual Display Secure KVM Switch, Port Dual Display Secure KVM Switch, Dual Display Secure KVM Switch, Display Secure KVM Switch, Secure KVM Switch, KVM Switch

References

- **ATEN PP4.0 Secure KVM Remote Port Selector - 2XRT-0019G, ATEN KVM Modules & Accessories | ATEN Corporate Headquarters**
- **User Manual**

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