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

EMC Information

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT: This equipment has been tested and found to comply with the limits for a Class B digital service, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

KCC Statement

유선 제품용 / B 급 기기 (가정용 방송 통신 기기) 이 기기는 가정용 (B 급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며 , 모든 지역에서 사용할 수 있습니다

RoHS

This product is RoHS compliant.



SJ/T 11364-2006

The following contains information that relates to China.

The following contains information that relates to China.

部件名称	有毒有害物质或元素					
	铅	汞	镉	六价铬	多溴联苯	多溴二苯醚
电器部件	●	○	○	○	○	○
机构部件	○	○	○	○	○	○

- : 表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T 11363-2006规定的限量要求之下。
- : 表示符合欧盟的豁免条款，但该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T 11363-2006的限量要求。
- ×: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T 11363-2006的限量要求。

User Information

Online Registration

Be sure to register your product at our online support center:

International <http://eservice.aten.com>

Telephone Support

For telephone support, call this number:

International	886-2-8692-6959
China	86-10-5255-0110
Japan	81-3-5615-5811
Korea	82-2-467-6789
North America	1-888-999-ATEN ext 4988
United Kingdom	44-8-4481-58923

User Notice

All information, documentation, and specifications contained in this manual are subject to change without prior notification by the manufacturer. The manufacturer makes no representations or warranties, either expressed or implied, with respect to the contents hereof and specifically disclaims any warranties as to merchantability or fitness for any particular purpose. Any of the manufacturer's software described in this manual is sold or licensed *as is*. Should the programs prove defective following their purchase, the buyer (and not the manufacturer, its distributor, or its dealer), assumes the entire cost of all necessary servicing, repair and any incidental or consequential damages resulting from any defect in the software.

The manufacturer of this system is not responsible for any radio and/or TV interference caused by unauthorized modifications to this device. It is the responsibility of the user to correct such interference.

The manufacturer is not responsible for any damage incurred in the operation of this system if the correct operational voltage setting was not selected prior to operation. **PLEASE VERIFY THAT THE VOLTAGE SETTING IS CORRECT BEFORE USE.**

Package Contents

The ATEN Secure KVM package consists of:

1 Secure KVM Switch

1 Power Cord

1 User Instructions*

Check to make sure that all of the components are present and in good order.

If anything is missing, or was damaged in shipping, contact your dealer.

Read this manual thoroughly and follow the installation and operation procedures carefully to prevent any damage to the switch or to any other devices on the Secure KVM installation.

*Please visit our website to download the most up to date version of the manual.

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Contents

EMC Information	ii
SJ/T 11364-2006	iii
User Information	iv
Online Registration	iv
Telephone Support	iv
User Notice	iv
Package Contents	V
About This Manual	viii
Overview	ix
Conventions	x
Product Information	x
Chapter 1	
Introduction	1
Overview	1
Features	2
Requirements.....	4
Console	4
Computers	4
Cables	4
Operating Systems	5
Components.....	6
Front View	6
Rear View.....	7
Chapter 2	
Hardware Setup	11
Before You Begin	11
Stacking	13
Rack-Mount.....	13
Cable Connection	13
Installation Diagram	16
Chapter 3	
Operation	17
Powering On	17
Manual Switching.....	18
Port ID Numbering	18
LED Display	18
Chassis Intrusion Detection	20

Smart Card and CAC Reader	20
Appendix	
Safety Instructions	21
General	21
Consignes de Sécurité	23
Général	23
Technical Support	25
International	25
North America	25
Specifications	26
Limited Warranty	34

ATTENTION

If the tamper-evident seal is missing or peeled, avoid using the product and contact your ATEN dealer.

If all front panel LEDs flash continuously (except the Power LED), or the switch's enclosure appears breached, avoid using this product and contact your ATEN dealer.

This Secure KVM Switch is equipped with active always-on chassis intrusion detection security. Any attempt to open the enclosure will permanently damage, disable the switch, and void the warranty.



Tamper-evident seal

About This Manual

This user manual is intended for system administrators and end users.

This user manual is provided to help you get the most from your ATEN Secure KVM Switch system. It covers all aspects of installation, configuration and operation. An overview of the information found in the manual is provided below.

This user manual covers the following ATEN Secure KVM Switches:

Configuration			2-Port	4-Port	8-Port
PC Video Connection	Console Video Connection	No. of Displays			
DisplayPort	HDMI	Single	CS1182DP	CS1184DP	CS1188DP
		Dual	CS1142DP	CS1144DP	CS1148DP
HDMI	HDMI	Single	CS1182H	CS1184H	CS1188H
		Dual	CS1142H	CS1144H	CS1148H
DVI	DVI	Single	CS1182D	CS1184D	CS1188D
		Dual	CS1142D	CS1144D	CS1148D

Overview

Chapter 1, Introduction, introduces you to the ATEN Secure KVM Switch system. Its purpose, features and benefits are presented, and its front and back panel components are described.


Chapter 2, Hardware Preparative Procedure, provides step-by-step instructions for setting up your installation.

Chapter 3, Operation, explains the concepts involved in operating the ATEN Secure KVM Switch.

An Appendix, provides specifications and other technical information regarding the ATEN Secure KVM Switch.

Conventions

This manual uses the following conventions:

- | | |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Monospaced | Indicates text that you should key in. |
| [] | Indicates keys you should press. For example, [Enter] means to press the Enter key. If keys need to be chorded, they appear together in the same bracket with a plus sign between them: [Ctrl+Alt]. |
| 1. | Numbered lists represent procedures with sequential steps. |
| ◆ | Bullet lists provide information, but do not involve sequential steps. |
| → | Indicates selecting the option (on a menu or dialog box, for example), that comes next. For example, Start → Run means to open the <i>Start</i> menu, and then select <i>Run</i> . |
|  | Indicates critical information. |

Product Information

For information about all ATEN products and how they can help you connect without limits, visit ATEN on the Web or contact an ATEN Authorized Reseller. Visit ATEN on the Web for a list of locations and telephone numbers:

International <http://www.aten.com>

North America <http://www.aten-usa.com>

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Chapter 1

Introduction

Overview

The ATEN Secure KVM Switch series is NIAP-certified and compliant with NIAP PP 3.0 (Protection Profile for Peripheral Sharing Switch version 3.0) requirements, satisfying the latest security requisites set by the U.S. Department of Defense for peripheral sharing switches. Compliance ensures maximum information security while sharing a single set of HIDs (keyboards, mouse, speakers, and CAC Reader) between multiple computers. Conformity with Protection Profile v3.0 certifies that other USB peripherals cannot be connected to the console ports of the Secure KVM Switch, and that only a keyboard and mouse are accommodated, therefore providing high-level security, protection and safekeeping of data.

The ATEN Secure KVM Switch hardware security includes tamper-evident tape, chassis intrusion detection, and tamper-proof hardware, while software security includes restricted USB connectivity – non-HIDs (Human Interface Devices) are ignored when switching – an isolated channel per port that makes it impossible for data to be transferred between secure and unsecure computers, and automatic clearing of the keyboard and mouse buffer when switching port focus.

By combining physical security with controlled USB connectivity and controlled unidirectional data flow from devices to connected computers only, the ATEN Secure KVM Switch series gives you the means to consolidate multiple workstations of various security classification levels with one keyboard, monitor and mouse (KVM) console.

Note:

1. The National Information Assurance Partnership (NIAP) is a United States government initiative to meet the security testing needs of IT consumers and manufacturers. It is operated by the National Security Agency (NSA) and the National Institute of Standards and Technology (NIST).
2. The ATEN Secure KVM Switch series additionally satisfies Protection Profile version 3.0 for Peripheral Sharing Switch (PSS).

Features

	FEATURES	BENEFITS
■	2/4/8-Port USB DVI/HDMI/DisplayPort Single/Dual Display Secure KVM Switch	Reduces the costs involved in controlling up to 8 Single/Dual Display computers while offering data isolation between shared peripherals and computers
■	Superior ultra high video resolution- up to 4K UHD (3840 × 2160 @30Hz)*	Supports resolutions up to 3840 x 2160@30Hz* with crystal clear image quality
■	Video DynaSync™ – exclusive ATEN technology	ATEN Video DynaSync™ eliminates boot-up display problems and optimizes resolutions when switching between ports
■	DisplayPort AUX channel filtering (DisplayPort Secure KVM only)	Non-qualified auxiliary channel traffic such as MCCC and EDID write are rejected
■	NIAP PP PSS v3.0 certified	Provides the most advanced security features required by the latest Protection Profile (PP) v3.0 for Peripheral Sharing Switches (PSS)
■	Pushbutton port selection and secure port switching	Port selection via pushbutton only to enhance security. Keyboard, Mouse, Video, Audio and CAC reader switch together for secure switching.
■	Channel Isolation	Isolated channel per port — makes it impossible for data to be transferred between computers
■	Shared peripherals and computer isolation	Console USB and PS/2 keyboard/mouse are supported. The always-on keyboard, mouse, and display EDID emulation ensures isolation between peripherals and connected computers.
■	Keyboard, Mouse, and Video EDID emulation	Keyboard, mouse, and EDID emulation ensures isolation between peripherals and connected computers.
■	Restricted USB connectivity	Non-authorized HID (Human Interface Devices) or non-predefined CAC devices will be rejected / ignored.
■	Unidirectional data flow	Secure design enables unidirectional data flow between devices and connected computers.
■	Administrative configuration and event log functions	Secure access for authorized administrator to audit KVM operation logs and secure configuration. (Please refer to the Administrator’s guide.)
■	Supports analogue audio (speaker only)**	Only unidirectional speaker data is allowed preventing the passage of the analogue audio by microphone input or line input.
■	Active always-on chassis intrusion detection	If the cover is removed from the switch, the unit becomes inoperable and all front panel LEDs (except the Power LED) flash continuously.

■	Clears keyboard buffer when switching	Keyboard data buffer is automatically purged when switching KVM port focus.
■	Tamper-proof hardware	All integrated circuits are soldered directly to the circuit board to prevent tampering with the components.
■	Tamper-evident tape	Provides a visual indication of any attempt to gain access to the switch's internal components.
■	Firmware non-reprogrammable	Prevents tampering and attempts to reprogram the switch's firmware.
■	Metal enclosure	Rugged metal enclosure.

Note:

* 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 analogue speaker data input is supported. The ATEN Secure KVM Switch does not convert digital audio to analogue audio.

Requirements

Console

- DVI (for DVI-interfaced Secure KVM) or HDMI (for HDMI and DisplayPort-interfaced Secure KVM) monitor capable of the highest resolution that you will be using on any computer in the installation
- USB mouse
- USB keyboard
- PS/2 mouse (Optional)
- PS/2 keyboard (Optional)
- Speaker (Optional)
- USB Smart card or CAC (Common Access Card) reader (Optional)

Computers

- A DVI/HDMI/DisplayPort video output connector
- A USB Type A port for keyboard and mouse
- A USB Type A port for Smart Card or CAC reader (Optional)
- A 3.5 mm jack Audio port for speaker (Optional)

Cables

The KVM cable sets which are specifically designed to work with this switch are not supplied in the package and require a separate purchase.

For security, do not apply any cable that has a microphone audio input or line in audio input.

Operating Systems

Suggested operating systems are shown in the table, below:

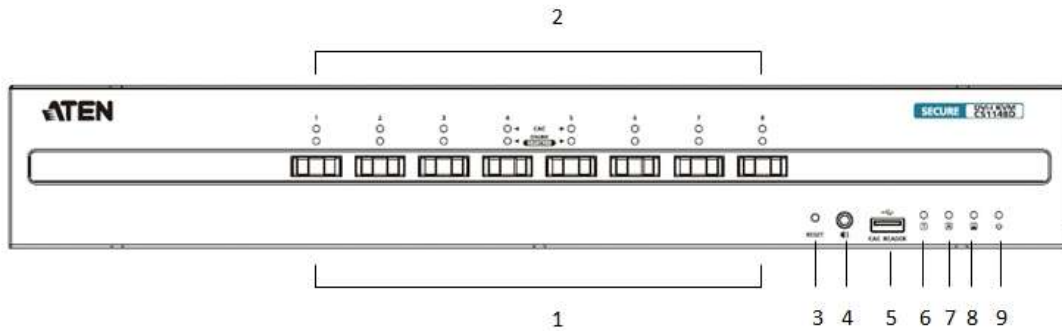
OS		Version
Windows		2000 / XP / Vista / 7 / 8 / 8.1 / 10
Linux	RedHat	6.0 and higher
	SuSE	8.2 and higher
	Mandriva (Mandrake)	9.0 and higher
UNIX	AIX	4.3 and higher
	FreeBSD	3.51 and higher
	Sun	Solaris 9 and higher
Novell	Netware	5.0 and higher
Mac		OS 9 and higher
DOS		6.2 and higher

Note: Supports Linux Kernel 2.6 and higher.

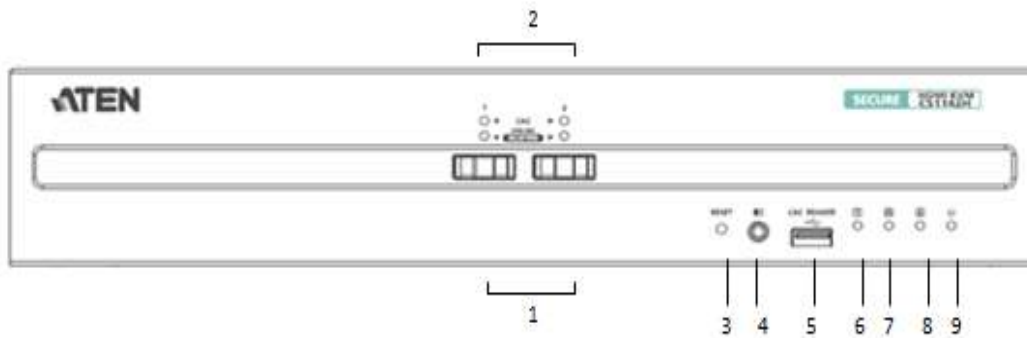
Components

Front View

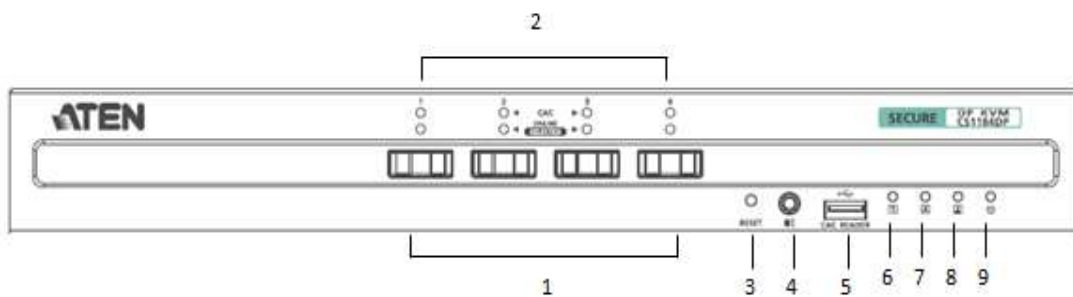
CS1188D



CS1142H

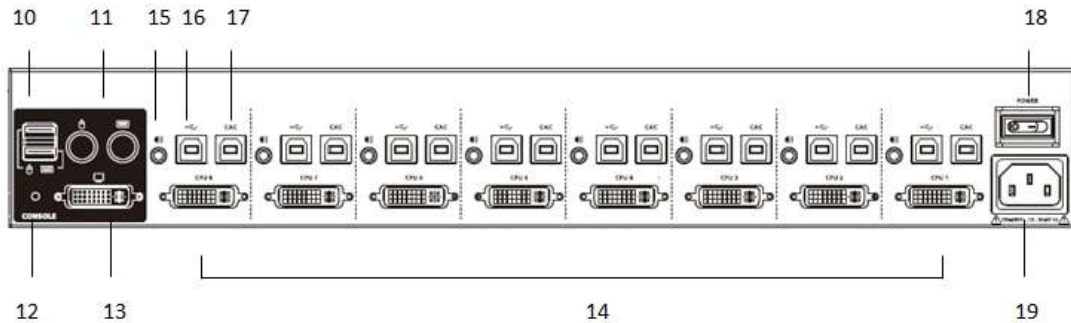


CS1184DP

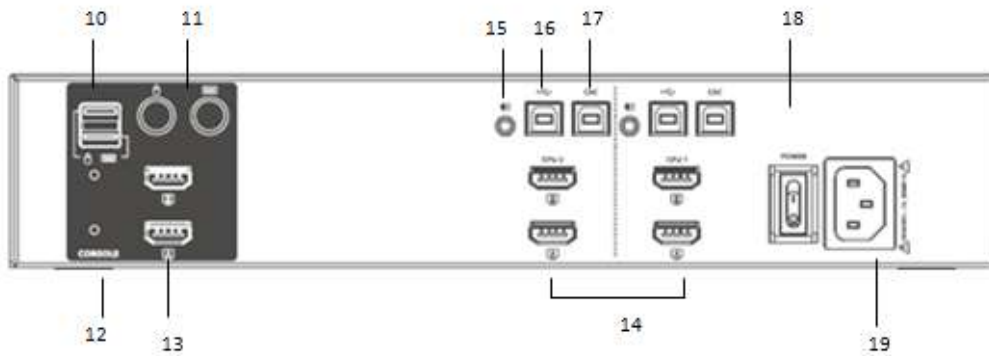


Rear View

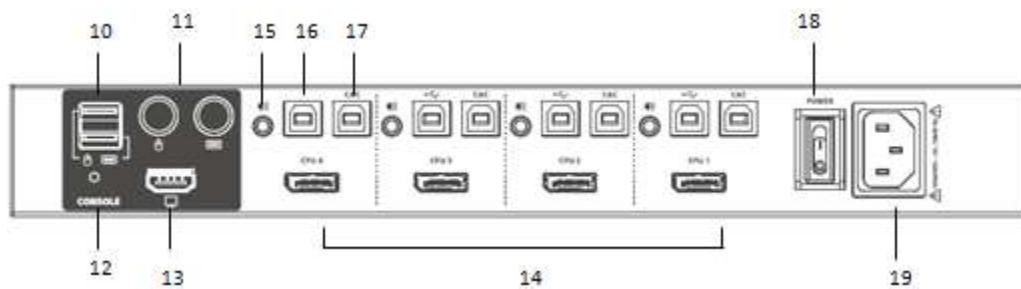
CS1188D



CS1142H



CS1184DP



Note:

1. This user manual uses CS1188D, CS1142H, and CS1184DP to demonstrate each interface (DVI/HDMI/DisplayPort), port number (2/4/8- Port), and number of displays (single/ dual) included in ATEN Secure KVM
2. The console video of the CS1182DP/CS1184DP/CS1188DP/CS1142DP/CS1144DP/CS1148DP (DisplayPort models) only supports an HDMI video output.
3. All the models support USB and PS/2 console keyboard/mouse and USB CAC card reader port.

No.	Component	Description
1	Port Selection Pushbuttons	Pressing a Port Selection Pushbutton brings together the keyboard, mouse, video, audio, and CAC reader focus to the computer attached to its corresponding port.
2	Port and CAC LEDs	<p>The Port / CAC LEDs are located on front panel to indicate Port/CAC reader selection or connection status.</p> <p>Port LEDs (Lower row; Orange LEDs)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Online – Lights dim orange to indicate that the computer attached to its corresponding port is connected and powered on. <input type="checkbox"/> Selected – Lights bright orange to indicate that the computer attached to its corresponding port has the KVM focus. <p>CAC LEDs (Upper row, Green LEDs)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Online – Lights dim green to indicate that the computer attached to its corresponding port has a USB CAC reader cable connection and the CAC function is enabled. <input type="checkbox"/> Selected – Lights bright green to indicate that the CAC function is enabled and the computer attached to its corresponding port has the CAC focus. <input type="checkbox"/> None – No lights indicate the cable is not connected or CAC has been disabled. <input type="checkbox"/> Warning - Flashes to indicate that a non-qualified USB smart card / CAC reader is connected when the corresponding port has the focus. <p>Note:</p> <ol style="list-style-type: none"> 1. CAC function of each port can be enabled or disabled by pressing the port selection pushbutton for more than 3 seconds (this is a toggle feature). Please refer to the Operation section of this user manual for more information. 2. All front panel LEDs (except the Power LED) will flash continuously when a chassis intrusion or self-test failures (except for Pushbutton jam) are detected. See Chassis Intrusion Detection section for further details. 3. Port and CAC LEDs also indicate the status of the Secure KVM self-test status. See Operation section for further details
3	Reset Button	<p>Press this button to reset the ATEN Secure KVM Switch.</p> <p>Note:</p> <p>When you perform a reset by pressing the reset button for more than 5 seconds, the keyboard/mouse buffer will be purged and the switch will reboot and perform a self-test. After a successful self-test, port focus will be switched to port 1, and the CAC function of each port will be set to factory default setting (enabled).</p> <p>If the Secure KVM fails to generate video on the monitor after a reset, please power off the installation, check the cables, and follow the</p>

		instructions found in this manual to power on the installation.
4	Audio Ports	The cables from your speakers plug in here. Note: Only standard analogue speaker connections are allowed. The use of an analog microphone or line-in audio device is strictly prohibited.
5	USB Smart Card / CAC Reader Port	Only qualified USB authentication devices (e.g., standard smart card and CAC reader) can be plugged into this port. Note: USB authentication device filter is configurable by authorized administrators for trusted devices (eg. USB token, USB Biometric reader). Please refer to the Administrator's Guide for details.
6	Num Lock LED	Lights green to indicate the Num Lock function has been turned on. Note: The Num Lock LED on the keyboard will be disabled due to security requirements.
7	Caps Lock LED	Lights green to indicate the Caps Lock function has been turned on. Note: The Caps Lock LED on the keyboard will be disabled due to security requirements.
8	Scroll Lock LED	Lights green to indicate the Scroll Lock function has been turned on. Note: The Scroll Lock LED on the keyboard will be disabled due to security requirements.
9	Power LED	Lights blue to indicate that the ATEN Secure KVM Switch is powered on.
10	USB Console Ports	The USB keyboard and mouse plug into these ports. The USB console keyboard port (lower port) and mouse port (upper port) are only compatible with a standard USB keyboard/mouse. Note: <ol style="list-style-type: none"> 1. The console USB keyboard and mouse ports are interchangeable, meaning you can connect a keyboard to the mouse port and vice versa. However, for optimal operation it is recommended that you connect the USB keyboard to console's USB keyboard port and the USB mouse to console's USB mouse port. 2. For security purposes, the ATEN Secure KVM Switch does not support wireless keyboards. Do not attempt to connect a wireless keyboard to the switch in any case. 3. Non-standard keyboards/mice with integrated USB hubs and/or other USB-integrated devices may not be fully supported due to the strict security standards and policy for the ATEN Secure KVM Switch. If supported, only basic (HID) keyboard/mouse operations will function. 4. Multimedia keys on the keyboard will not function due to the security policy. 5. The Num Lock, Caps Lock, and Scroll Lock LED on keyboards will not function due to the security policy.

11	PS/2 Console Ports	The PS/2 keyboard and mouse plug into these ports. (PS/2 mouse port: Green; PS/2 keyboard port: Purple)
12	Video LED(s)	This LED lights green when the video connection is up and running. The LED flashes when a non-qualified monitor is connected. Note: With the dual-display model, each console video connection has a video LED.
13	Console Monitor Port(s)	The cable from your console monitor plugs in here. Note: The dual-display model has two console monitor ports.
14	KVM Port Section	The custom KVM cables that attach to your computers plug in this section.
15	KVM Audio Port	The audio cable that attaches to your computer plugs in here. Note: Only speaker connections are allowed. The use of an analog microphone or line-in audio device is strictly prohibited.
16	KVM USB Port	The USB cable that attaches to your computer's keyboard / mouse plugs in here.
17	USB Smart Card / CAC (Common Access Card) Reader Port	The USB cable that attaches to your computer's USB Smart Card / CAC reader plugs in here.
18	Power Switch	This is a standard rocker switch that powers the ATEN Secure KVM Switch on and off.
19	Power Socket	The AC power cord plugs in here.

Chapter 2

Hardware Setup

Before You Begin

If any tamper-evident seal is missing or peeled, avoid using the product and contact your ATEN dealer.

If all front panel LEDs except the Power LED flash continuously or the switches' enclosure appears breached, avoid using this product and contact your ATEN dealer.



Tamper-evident seal

Tampering prevention and detection

1. The ATEN Secure KVM Switch includes tamper-evident tape to provide visual indications of intrusion to the switches enclosure. If the tamper-evident seal is missing, peeled, or looks as if it's been adjusted, avoid using the product and contact your ATEN dealer.
2. The ATEN Secure KVM Switch is equipped with active always-on chassis intrusion detection. If a mechanical intrusion is detected, the switch will be permanently disabled and all the front panel LEDs (except the Power LED) will flash continuously. If the switches' enclosure appears breached or all the LEDs are flashing continuously, stop using it, remove it from service immediately and contact your ATEN dealer.
3. Any attempt to open the switches enclosure will activate the chassis intrusion detection security, which will render it inoperable and void the warranty.
4. The ATEN Secure KVM Switch cannot be upgraded, serviced or repaired.
5. The ATEN Secure KVM Switch is equipped with active always-on chassis intrusion detection security. Never attempt to open the enclosure. Any attempt to open the enclosure will permanently damage and disable the switch.
6. The ATEN Secure KVM Switch contains an internal battery which is non-replaceable. Never attempt to replace battery or open the switches' enclosure.

Use always qualified and authorized peripheral devices

1. For security, the ATEN Secure KVM Switch supports only standard USB or PS/2 keyboard/mouse (or pointing device). Do not connect a wireless keyboard/mouse, or any keyboard/mouse with an internal USB hub or composite device function to the switch.
2. When connecting a non-qualified keyboard, the keyboard will not function. No keyboard keystrokes will be seen on the screen.
3. When connecting a non-qualified mouse, the mouse will not function. No mouse cursor movement will be seen on the screen.

4. Num Lock LED, Caps Lock LED, and Scroll Lock LED on keyboard will be disabled due to the security policy.
5. Special multimedia keys on the keyboard will be disabled due to the security policy.
6. For security, the ATEN Secure KVM Switch does not support an analogue microphone or line-in audio input. Never connect a microphone to the switches' audio output port, including a headset's. Standard analogue speakers and headsets are supported.
7. For security, the USB CAC port on the ATEN Secure KVM Switch by default only supports authorized user authentication devices such as USB Smartcard or CAC readers. Do not connect other USB devices to the USB CAC port. Non-qualified or non-authorized USB devices will be rejected. For administrative configuration, please refer to the Administrator's Guide and Port Authentication Utility Guide for details.
8. For security, do not use any USB CAC authentication device or other peripherals that adopt an external power source.
9. Always use a qualified monitor. Non-qualified monitors will be rejected.
10. Do not use wireless video transmitters or any docking device.
11. Do not connect any Thunderbolt device to the Secure KVM.

Secure Installation

1. Do not attempt to connect or install the following devices to the computers connected to the ATEN Secure KVM Switch: TEMPEST computers; telecommunication equipment; frame grabber video cards; or special audio processing cards.
2. Important safety information regarding the placement of this device is provided on page 21. Please review it before proceeding.
3. Before installation, make sure the power sources to all devices connected to the installation are turned off. You must unplug the power cords of any computers that have the Keyboard Power On function.
4. Hot-swapping of the console monitor is not allowed. Power off the Secure KVM Switch and the monitor before changing the console monitor.
5. A computer connected to the Secure KVM Switch should only be powered on after all of the connections to the device are made (video, USB and audio).

Secure Operation and Administration

Please refer to Administrator's Guide for Secure KVM configuration and event log auditing functions.

Stacking

The ATEN Secure KVM Switch features a rugged, metal enclosure which provides stability and allows the unit to be stacked on a desktop. The unit can be placed on any level surface that can safely support its weight and the weight of the attached cables. Ensure that the surface is clean and free of materials that can block the exhaust vents or otherwise interfere with normal operation of the KVM switch.

Rack-Mount

The ATEN Secure KVM Switch features a rack-mount design and offers rack-mount options. Rack-mount kits which are specifically designed to work with this switch are not supplied in the package and require a separate purchase.

Cable Connection

To set up your ATEN Secure KVM Switch installation, refer to the installation diagram on the following page (the numbers in the diagrams correspond to the steps below), and do the following:

1. Plug your USB keyboard and USB mouse into the USB console ports located on the unit's rear panel. (The USB keyboard and mouse console ports are only compatible with standard USB keyboard/mice. If you are using PS/2 keyboard/mouse, plug your PS/2 keyboard and PS/2 mouse into the corresponding PS/2 ports.)

Note:

1. The console USB keyboard and mouse ports are interchangeable, meaning you can connect a keyboard to the mouse port and vice versa. However, for optimal operation, it is recommended that you connect the USB keyboard to console's USB keyboard port and the USB mouse to console's USB mouse port.
2. For security purposes, the ATEN Secure KVM Switch does not support wireless keyboards. Do not attempt to connect a wireless keyboard to the switch.
3. During KVM operation, non-standard keyboards with integrated USB hubs and/or other USB-integrated devices may not be fully supported due to the strict security standards and policy for the ATEN Secure KVM Switch. If supported, only basic (HID) keyboard operations will function.
4. When the Secure KVM Switch is powered on, if the keyboard or mouse is rejected, the keyboard and mouse will be inoperable (mouse cursor freezes and/or no key strokes will respond on the computer)

2. Plug your console monitor(s) into the console video port(s) located on the unit's rear panel and power on the monitor.

Note:

1. When the ATEN Secure KVM Switch is powered on, the Video LED lights green when the video connection is up and running. The Video LED flashes when a non-qualified monitor is connected.
2. Due to the security policy, the ATEN Secure KVM Switch does not support a monitor hot-swap. If you would like to change the console monitor, you must first power off the entire installation.
3. Connected monitor will be filtered when the ATEN Secure KVM Switch is powered on. Non-qualified monitor will be rejected (Video LED flashes). Please refer to the LED Display for detailed visual identification.

3. Plug your speakers into the console's speaker jack located on the unit's front panel.

Note:

Only speaker connections are allowed. The use of an analogue microphone or line-in audio connection is strictly prohibited.

4. With a single-display Secure KVM Switch, using a KVM cable set (not supplied with this package and must be purchased separately), plug the video connector into any available video socket in the KVM port section of the switch, then plug the accompanying USB (keyboard/mouse or CAC) and speaker connectors into their corresponding USB and speaker ports.

With a dual-display Secure KVM Switch, using a KVM cable set (not supplied with this package and must be purchased separately), plug the video connector for your primary monitor into any available video socket A in the KVM port section of the switch, then plug the accompanying USB (Keyboard/Mouse or CAC) and speaker connectors into their corresponding USB and speaker sockets.

Note:

1. Verify that all the plugs are in the same KVM port sockets (all in Port 1, all in Port 2, etc.). Each socket is marked with an appropriate icon.
2. If the CAC reader function is to be disabled for certain PCs, it's advised not to connect a USB CAC cable in the installation.

5. At the other end of the KVM cable set, plug the USB, video, and speaker cables into their respective ports on the computer.

With a dual-display Secure KVM Switch, use another video cable for your second monitor (not supplied with this package and must be purchased separately), to plug the video connector into video socket B on the same KVM port section of the switch. At the other end of the video cable, plug the monitor cable in to its respective port on the computer.

Note:

1. Verify that the second video plug is in the same KVM port section as the first video plug (all in Port 1, all in Port 2, etc.). Each socket is marked with an appropriate icon.
2. Repeat steps 4, 5, 6, and 7 for each computer you are installing.
3. With a dual-display installation, for easier cabling at your site, you can also connect all the primary video connectors to video sockets B, and secondary video connectors to video sockets A. Make sure the console's primary and secondary monitors are connected the same way.

6. Plug the USB Smart Card / CAC reader to the CAC port on the front panel.

Note:

1. Only appropriate qualified USB authentication devices (e.g., Smart Card and CAC readers by default) can be plugged into this port. During KVM operation, non-qualified or non-authorized USB devices will be filtered and rejected (the CAC LED that has port focus will flash). Please refer to the LED display for visual indications.
2. CDF (configurable device filtering) function can only be operated by authorized administrators. Please refer to the Administrator's Guide and Port Authentication Utility Guide for details.

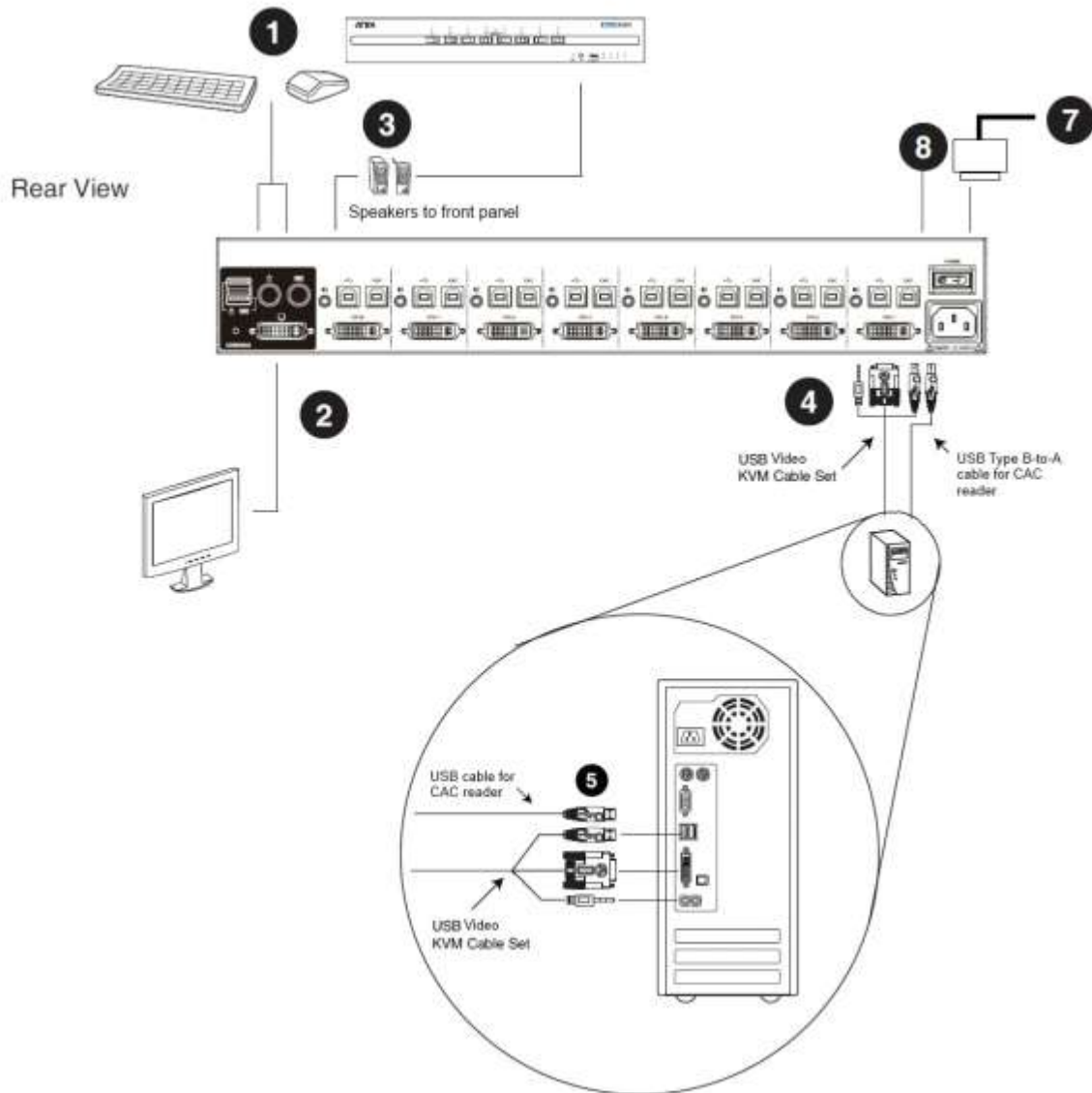
7. Plug the female end of the power cord into the ATEN Secure KVM Switches' power socket; plug the male end into an AC power source.

8. Turn on the ATEN Secure KVM Switch and check that the LEDs light up. The ATEN Secure KVM Switch will start a self-test.

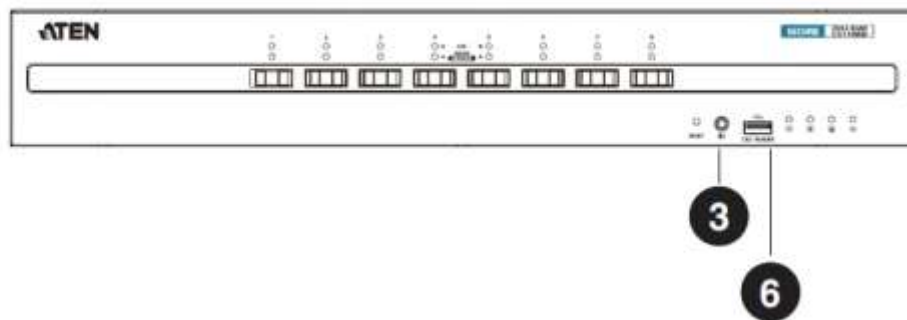
Note:

The ATEN Secure KVM Switch performs a security self-test at power-on and at each power cycle. Front panel LEDs will indicate the self-test status and test result. Please refer to the Operation section and LED Display section for visual identification details.

Installation Diagram



Front View



Chapter 3

Operation

Powering On

When you power on, reset, or power cycle the ATEN Secure KVM Switch, the switch will perform a self-test to check the unit's integrity and security functions.

During the self-test

- All Port and CAC LEDs will turn ON and then OFF.
- The KVM focus will be switched to port 1 when the self-test completes successfully (port 1 LED lights bright orange).

Self-test failure

In the case of a self-test failure, the Secure KVM Switch becomes inoperable, with front panel LED combinations indicating the potential cause of the failure (such as a button jam or KVM integrity compromise)

- A pre-defined combination of port and CAC LEDs indicate the cause of the failure.
- If all front panel LEDs (except the Power LED) flash continuously, it means KVM tampering is detected or a self-test failure has occurred (except for Pushbutton jam; see below)
- If Pushbutton jam is detected, both the port's LEDs will flash.

For security, the ATEN Secure KVM Switch becomes inoperable if a self-test fails. Please verify your KVM installation, pushbuttons, and power cycle the Secure KVM Switch if this should happen. If the self-test failure remains, stop using the ATEN Secure KVM Switch immediately, remove it from service and contact your ATEN dealer.

After the ATEN Secure KVM Switch is powered on and ready, power on your computers. By default the ATEN Secure KVM Switch will switch to port 1 after a successful self-test.

The ATEN Secure KVM Switch filters and emulates both a mouse and keyboard on each port after the unit is powered on. If the keyboard, mouse, monitor, or Smart card / CAC reader fails to operate properly, make sure that you are using the appropriate peripherals (qualified and authorized peripherals); then power off the ATEN Secure KVM Switch, check all the cable connections, and power on the unit again.

Manual Switching

For increased security, the ATEN Secure KVM Switch offers manual port-switching only. This is achieved by pressing the port selection pushbuttons located on the unit's front panel.

Press and release a port selection pushbutton to bring the KVM focus to the computer attached to its corresponding port (see Port ID Numbering, below). To meet maximum security and channel isolation requirements, keyboard, mouse, video, audio, and USB CAC reader ports will be switched together. The Selected Port LED lights orange to indicate that the computer attached to its corresponding port has the KVM focus (keyboard, mouse, monitor, audio, and CAC reader).

The PC that has the port focus should be able to detect the peripherals after port switching.

If the PC fails to detect the keyboard, mouse, or CAC card reader:

- Verify that the keyboard, mouse, and/or CAC card reader is qualified.
- Verify if the keyboard, mouse, or CAC reader hasn't failed.
- For USB CAC card reader (USB authentication device), please make sure the USB CAC cable has been securely connected, and the CAC function is enabled.
- For USB CAC card reader port, please contact your administrator to verify if the device has been authorized.

Port ID Numbering

Each KVM port on the ATEN Secure KVM Switch is assigned a port number (1–2 for the 2-Port models; 1–4 for the 4-Port models; 1–8 for 8-Port models). The port numbers are marked on the rear of the switch. See *Rear View*, page 7. The port ID of a computer is derived from the KVM port number it is connected to.

LED Display

In addition to the Power LED, the ATEN Secure KVM Switch has Port LEDs (Online and Selected), keyboard lock (Num Lock/Caps Lock/Scroll Lock) LEDs and CAC LEDs that are built into the front panel to indicate port / keyboard / CAC reader operating status. A video LED is located on back panel to indicate the operating status of the video connection. These LEDs also serve as the alarm notification for KVM security issues.

LED	Indication
Power LED	The Power LED is on the front panel and lights blue to indicate that the KVM switch is powered on.
Video LED	<p>The Video LED is located on the back panel next to each video connector.</p> <ul style="list-style-type: none"> <input type="checkbox"/> The LED lights green when the video connection is up and running. <input type="checkbox"/> The LED flashes when a non-qualified monitor is connected.
Port LED	<p>The Port LEDs are located on the front panel to indicate the port selection or connection status.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Online – Lights dim orange to indicate that the computer attached to its corresponding port connected and powered on. <input type="checkbox"/> Selected – Lights bright orange to indicate that the computer attached to its corresponding port has the KVM focus. <p>Note:</p> <ol style="list-style-type: none"> 1. Port and CAC LEDs will flash constantly when a chassis intrusion is detected. See Chassis Intrusion Detection section for details. 2. Port and CAC LEDs also indicate the status of the Secure KVM self-test status. See Operation section for further details.
CAC LED	<p>The CAC LEDs are located on front panel to indicate CAC reader selection or connection status.</p> <p>Online – Lights dim green to indicate that the computer attached to its corresponding port has a USB CAC reader cable connection and the CAC function is enabled.</p> <p>Selected – Lights bright green to indicate that the CAC function is enabled and the computer attached to its corresponding port has the CAC focus.</p> <p>None – No lights indicate the cable is not connected or CAC has been disabled.</p> <p>Warning - Flashes to indicate that a non-qualified USB Smart card / CAC reader is connected when the corresponding port has the focus.</p> <p>Note:</p> <ul style="list-style-type: none"> - CAC function of each port can be enabled or disabled by pressing the port selection button for more than 3 seconds (this is a toggle). Please refer to Operation section for details. - Port and CAC LEDs will flash constantly when a chassis intrusion is detected. See Chassis Intrusion Detection section for further details.
Num Lock LED	Lights green to indicate the Num Lock is enabled
Caps Lock LED	Lights green to indicate the Caps Lock is enabled

Scroll Lock LED	Lights green to indicate the Scroll Lock is enabled
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Chassis Intrusion Detection

To help prevent malicious tampering with the ATEN Secure KVM Switch, the switch becomes inoperable and all front panel LEDs (except the Power LED) flash constantly when a chassis intrusion (such as the cover being removed) is detected.

The intrusion detection feature is an always-on function. If all your front panel LEDs (except the Power LED) flash continuously or the switch's enclosure appears breached, avoid using this product and contact your ATEN dealer.

Smart Card and CAC Reader

The USB Smart Card / CAC reader function of each port can be enabled or disabled (enabled by default). Press the port selection pushbutton for more than 3 seconds then release it, to enable/disable the CAC reader function for that port (this is a toggle feature). The CAC LEDs are used to indicate the CAC reader operation status.

If the CAC reader function is to be disabled for certain PCs, it's advised not to connect a USB CAC cable to the installation.

Safety Instructions

General

- This product is for indoor use only.
- Read all of these instructions. Save them for future reference.
- Follow all warnings and instructions marked on the device.
- Do not place the device on any unstable surface (cart, stand, table, etc.). If the device falls, serious damage will result.
- Do not use the device near water.
- Do not place the device near, or over, radiators or heat registers.
- The device cabinet is provided with slots and openings to allow for adequate ventilation*. To ensure reliable operation, and to protect against overheating, the cabinet must never be blocked or covered.
- The device should never be placed on a soft surface (bed, sofa, rug, etc.) as this will block its ventilation openings*. Placing devices without slots or openings on a soft surface will affect the heat dissipation.
- The device should not be placed in a built in enclosure unless adequate ventilation has been provided.
- Never spill liquid of any kind on the device.
- Unplug the device from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- The device should be operated from the type of power source indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- The device is designed for IT power distribution systems with 230V phase-to-phase voltage.
- To prevent damage to your installation it is important that all devices are properly grounded.
- The device is equipped with a 3-wire grounding type plug. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not attempt to defeat the purpose of the grounding-type plug. Always follow your local/national wiring codes.
- Do not allow anything to rest on the power cord or cables. Route the power cord and cables so that they cannot be stepped on or tripped over.
- If an extension cord is used with this device make sure that the total of the ampere ratings of all products used on this cord does not exceed the extension cord ampere rating. Make sure that the total of all products plugged into the wall outlet does not exceed 15 amperes.
- To help protect your system from sudden, transient increases and decreases in electrical power, use a surge suppressor, line conditioner, or uninterruptible power supply (UPS).
- Position system cables and power cables carefully; Be sure that nothing rests on any cables.
- Never push objects of any kind into or through cabinet slots. They may touch dangerous voltage points or short out parts resulting in a risk of fire or electrical shock.

- Do not attempt to service the device yourself. Refer all servicing to qualified service personnel.
- If the following conditions occur, unplug the device from the wall outlet and bring it to qualified service personnel for repair.
 - The power cord or plug has become damaged or frayed.
 - Liquid has been spilled into the device.
 - The device has been exposed to rain or water.
 - The device has been dropped, or the cabinet has been damaged.
 - The device exhibits a distinct change in performance, indicating a need for service.
 - The device does not operate normally when the operating instructions are followed.
 - Suitable for installation in Information Technology Rooms in accordance with Article 645 of the National Electrical Code and NFPA 75.

CAUTION: Never attempt to replace battery or open the switch's enclosure.

*Note: Not all devices have slots or openings to allow for ventilation

Consignes de Sécurité

Général

- Ce produit est destiné exclusivement à une utilisation à l'intérieur.
- Veuillez lire la totalité de ces instructions. Conservez-les afin de pouvoir vous y référer ultérieurement.
- Respectez l'ensemble des avertissements et instructions inscrits sur l'appareil.
- Ne placez jamais l'unité sur une surface instable (chariot, pied, table, etc.). Si l'unité venait à tomber, elle serait gravement endommagée.
- N'utilisez pas l'unité à proximité de l'eau.
- Ne placez pas l'unité à proximité de ou sur des radiateurs ou bouches de chaleur.
- Le boîtier de l'unité est destiné à assurer une ventilation adéquate*. Pour garantir un fonctionnement fiable et protéger l'unité contre les surchauffes, le boîtier de l'unité ne doit jamais être obstrué ou couvert.
- L'unité ne doit jamais être placée sur une surface molle (lit, canapé, tapis, etc.) car ceci obstruerait les ouvertures de ventilation*. Le fait de placer des appareils sans fente ni ouverture sur une surface souple affecte la dissipation thermique.
- L'appareil ne doit pas être placé dans une enceinte intégrée à moins de lui fournir une ventilation adéquate.
- Ne renversez jamais de liquides de quelque sorte que ce soit sur l'unité.
- Débranchez l'appareil de la prise secteur avant nettoyage. Ne pas utiliser de nettoyeur liquide ou en aérosol. Utiliser un chiffon humidifié pour le nettoyage.
- L'appareil doit être alimenté par le type de source indiqué sur l'étiquette. Si vous n'êtes pas sûr du type d'alimentation disponible, consultez votre revendeur ou le fournisseur local d'électricité.
- L'appareil est conçu pour les systèmes de distribution d'alimentation informatique avec une tension phase à phase de 230V
- Afin de ne pas endommager votre installation, vérifiez que tous les périphériques sont correctement mis à la terre.
- L'unité est équipée d'une fiche de terre à trois fils. Il s'agit d'une fonction de sécurité. Si vous ne parvenez pas à insérer la fiche dans la prise murale, contactez votre électricien afin qu'il remplace cette dernière qui doit être obsolète. Respectez toujours les codes de câblage en vigueur dans votre région/pays.
- Veuillez à ce que rien ne repose sur le cordon d'alimentation ou les câbles. Acheminez le cordon d'alimentation et les câbles de sorte que personne ne puisse marcher ou trébucher dessus.
- En cas d'utilisation d'une rallonge avec cette unité, assurez-vous que le total des ampérages de tous les produits utilisés sur cette rallonge ne dépasse pas l'ampérage nominal de cette dernière. Assurez-vous que le total des ampérages de tous les produits branchés sur la prise murale ne dépasse

pas 15 Ampères.

- Pour contribuer à protéger votre système contre les augmentations et diminutions soudaines et transitoires de puissance électrique, utilisez un parasurtenseur, un filtre de ligne ou un système d'alimentation sans coupure (UPS).
- Placez les câbles du système et les câbles d'alimentation avec précaution ; veillez à ce que rien ne repose sur aucun des câbles.
- N'insérez jamais d'objets de quelque sorte que ce soit dans ou à travers les fentes du boîtier. Ils pourraient entrer en contact avec des points de tension dangereuse ou court-circuiter des pièces, entraînant ainsi un risque d'incendie ou de choc électrique.
- N'essayez pas de réparer l'unité vous-même. Confiez toute opération de réparation à du personnel qualifié.
- Si les conditions suivantes se produisent, débranchez l'unité de la prise murale et amenez-la à un technicien qualifié pour la faire réparer:
 - Le cordon d'alimentation ou la fiche ont été endommagés ou éraillés.
 - Du liquide a été renversé dans l'unité.
 - L'unité a été exposée à la pluie ou à l'eau.
 - L'unité est tombée ou le boîtier a été endommagé.
 - Les performances de l'unité sont visiblement altérées, ce qui indique la nécessité d'une réparation.
 - L'unité ne fonctionne pas normalement bien que les instructions d'utilisation soient respectées.
 - Peut être installé dans des salles de matériel de traitement de l'information conformément à l'article 645 du National Electrical Code et à la NFPA 75.

ATTENTION : Ne jamais tenter de remplacer la batterie interne ni d'ouvrir le boîtier du commutateur.

*Remarque : Tous les appareils ne disposent pas de fentes ou d'ouvertures qui permettent la ventilation.

Technical Support

International

- For online technical support – including troubleshooting and documentation: <http://eservice.aten.com>
- For telephone support, See *Telephone Support*, page iv:

North America

Email Support		support@aten-usa.com
Online Technical Support	Troubleshooting Documentation Software Updates	http://www.aten-usa.com/support
Telephone Support		1-888-999-ATEN ext 4988

When you contact us, please have the following information ready beforehand:

- Product model number, serial number, and date of purchase.
- Your computer configuration, including operating system, revision level, expansion cards, and software.
- Any error messages displayed at the time the error occurred.
- The sequence of operations that led up to the error.
- Any other information you feel may be of help.

Specifications

ATEN DisplayPort Single Display Secure KVM

Function		CS1182DP	CS1184DP	CS1188DP	
Computer Connections	Direct	2	4	8	
	Max.	2	4	8	
Console Connections		1 Direct			
Port Selection		Pushbutton			
Connectors	Console Ports	Keyboard	1 x 6-pin Mini-DIN Female (Purple) 1 x USB Type A Female (2/4-Port Black; 8-Port White)		
		Video	1 x HDMI 1.4 Female (Black)		
		Mouse	1 x 6-pin Mini-DIN Female (Green) 1 x USB Type A Female (2/4-Port Black; 8-Port White)		
		Speaker	1 x Mini Stereo Jack Female (Green)		
		Microphone	N/A		
		CAC	1 x USB Type A Female (Black)		
	KVM Ports	Keyboard/ Mouse	2 x USB Type-B Female (White)	4 x USB Type-B Female (White)	8 x USB Type-B Female (White)
		Video	2x DisplayPort 1.2 Female (Black)	4x DisplayPort 1.2 Female (Black)	8x DisplayPort 1.2 Female (Black)
		CAC	2 x USB Type-B Female (White)	4 x USB Type-B Female (White)	8 x USB Type-B Female (White)
		Speaker	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)	8 x Mini Stereo Jack Female (Green)
		Microphone	N/A		
	Power		1 x 3-prong AC Socket		
	Switches	Port	2 x Pushbuttons	4 x Pushbuttons	8 x Pushbuttons
		Reset	1 x Semi-recessed Pushbutton		
Power		1 x Rocker			
LEDs	On Line / Selected	2 (Orange)	4 (Orange)	8 (Orange)	
	CAC activated	2 (Green)	4 (Green)	8 (Green)	
	Power	1 (Blue)			
	Key Lock LED	3 (Green; Num Lock, Caps Lock, Scroll Lock)			
	Console Video	1 (Green, on back panel)			
Emulation	Keyboard/Mouse	USB			

Video		Max. 3840 x 2160 @ 30 Hz (UHD)		
Scan Interval		N/A		
I/P Rating		100–240V~ ; 50-60 Hz; 1A		
Environment	Operating Temp.	0–50°C		
	Storage Temp.	-20–60°C		
	Humidity	0–80% RH, Non-condensing		
Physical Properties	Housing	Metal		
	Weight	1.78kg	1.79kg	3.05kg
	Dimensions (L x W x H)	335 x 164 x 44	335 x 164 x 44	432 x 205 x 66
		mm	mm	mm

ATEN DisplayPort Dual Display Secure KVM

Function		CS1142DP	CS1144DP	CS1148DP	
Computer Connections	Direct	2	4	8	
	Max.	2	4	8	
Console Connections		1 Direct			
Port Selection		Pushbutton			
Connectors	Console Ports	Keyboard	1 x 6-pin Mini-DIN Female (Purple) 1 x USB Type A Female (2/4-Port Black; 8-Port White)		
		Video	2 x HDMI 1.4 Female (Black)		
		Mouse	1 x 6-pin Mini-DIN Female (Green) 1 x USB Type A Female (2/4-Port Black; 8-Port White)		
		Speaker	1 x Mini Stereo Jack Female (Green)		
		Microphone	N/A		
		CAC	1 x USB Type A Female (Black)		
	KVM Ports	Keyboard/ Mouse	2 x USB Type-B Female (White)	4 x USB Type-B Female (White)	8 x USB Type-B Female (White)
		Video	4x DisplayPort 1.2 Female (Black)	8x DisplayPort 1.2 Female (Black)	16x DisplayPort 1.2 Female (Black)
		CAC	2 x USB Type-B Female (White)	4 x USB Type-B Female (White)	8 x USB Type-B Female (White)
		Speaker	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)	8 x Mini Stereo Jack Female (Green)
Microphone		N/A			

	Power	1 x 3-prong AC Socket		
Switches	Port	2 x Pushbuttons	4 x Pushbuttons	8 x Pushbuttons
	Reset	1 x Semi-recessed Pushbutton		
	Power	1 x Rocker		
LEDs	On Line / Selected	2 (Orange)	4 (Orange)	8 (Orange)
	CAC activated	2 (Green)	4 (Green)	8 (Green)
	Power	1 (Blue)		
	Key Lock LED	3 (Green; Num Lock, Caps Lock, Scroll Lock)		
	Console Video	2 (Green, on back panel)		
Emulation	Keyboard/Mouse	USB		
Video		Max. 3840 x 2160 @ 30 Hz (UHD)		
Scan Interval		N/A		
I/P Rating		100–240V~ ; 50-60 Hz; 1A		
Environment	Operating Temp.	0–50°C		
	Storage Temp.	-20–60°C		
	Humidity	0–80% RH, Non-condensing		
Physical Properties	Housing	Metal		
	Weight	2.12kg	2.13kg	3.35kg
	Dimensions (L x W x H)	335 x 164 x 66 mm	335 x 164 x 66 mm	432 x 205 x 66 mm

ATEN HDMI Single Display Secure KVM

Function		CS1182H	CS1184H	CS1188H
Computer Connections	Direct	2	4	8
	Max.	2	4	8
Console Connections		1 Direct		
Port Selection		Pushbutton		
Connectors	Console Ports	Keyboard	1 x 6-pin Mini-DIN Female (Purple) 1 x USB Type A Female (2/4-Port Black; 8-Port White)	
		Video	1 x HDMI 1.4 Female (Black)	
		Mouse	1 x 6-pin Mini-DIN Female (Green) 1 x USB Type A Female (2/4-Port Black; 8-Port White)	
		Speaker	1 x Mini Stereo Jack Female (Green)	
		Microphone	N/A	

		CAC	1 x USB Type A Female (Black)		
	KVM Ports	Keyboard/ Mouse	2 x USB Type-B Female (White)	4 x USB Type-B Female (White)	8 x USB Type-B Female (White)
		Video	2 x HDMI 1.4 Female (Black)	4 x HDMI 1.4 Female (Black)	8 x HDMI 1.4 Female (Black)
		CAC	2 x USB Type-B Female (White)	4 x USB Type-B Female (White)	8 x USB Type-B Female (White)
		Speaker	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)	8 x Mini Stereo Jack Female (Green)
		Microphone	N/A		
Power	1 x 3-prong AC Socket				
Switches	Port	2 x Pushbuttons	4 x Pushbuttons	8 x Pushbuttons	
	Reset	1 x Semi-recessed Pushbutton			
	Power	1 x Rocker			
LEDs	On Line / Selected	2 (Orange)	4 (Orange)	8 (Orange)	
	CAC activated	2 (Green)	4 (Green)	8 (Green)	
	Power	1 (Blue)			
	Key Lock LED	3 (Green; Num Lock, Caps Lock, Scroll Lock)			
	Video	1 (Green, on back panel)			
Emulation	Keyboard/Mouse	USB			
Video	Max. 3840 x 2160 @ 30 Hz (UHD); 1920 x 1080 (FHD)				
Scan Interval	N/A				
I/P Rating	100–240V~ ; 50-60 Hz; 1A				
Environment	Operating Temp.	0–50°C			
	Storage Temp.	-20–60°C			
	Humidity	0–80% RH, Non-condensing			
Physical Properties	Housing	Metal			
	Weight	1.78kg	1.79kg	3.05kg	
	Dimensions (L x W x H)	335 x 164 x 44 mm	335 x 164 x 44 mm	432 x 205 x 66 mm	

ATEN HDMI Dual Display Secure KVM

Function		CS1142H	CS1144H	CS1148H	
Computer Connections	Direct	2	4	8	
	Max.	2	4	8	
Console Connections		1 Direct			
Port Selection		Pushbutton			
Connectors	Console Ports	Keyboard	1 x 6-pin Mini-DIN Female (Purple) 1 x USB Type A Female (2/4-Port Black; 8-Port White)		
		Video	2 x HDMI 1.4 Female (Black)		
		Mouse	1 x 6-pin Mini-DIN Female (Green) 1 x USB Type A Female (2/4-Port Black; 8-Port White)		
		Speaker	1 x Mini Stereo Jack Female (Green)		
		Microphone	N/A		
		CAC	1 x USB Type A Female (Black)		
	KVM Ports	Keyboard/ Mouse	2 x USB Type-B Female (White)	4 x USB Type-B Female (White)	8 x USB Type-B Female (White)
		Video	4 x HDMI 1.4 Female (Black)	8 x HDMI 1.4 Female (Black)	16 x HDMI 1.4 Female (Black)
		CAC	2 x USB Type-B Female (White)	4 x USB Type-B Female (White)	8 x USB Type-B Female (White)
		Speaker	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)	8 x Mini Stereo Jack Female (Green)
		Microphone	N/A		
	Power		1 x 3-prong AC Socket		
	Switches	Port	2 x Pushbuttons	4 x Pushbuttons	8 x Pushbuttons
		Reset	1 x Semi-recessed Pushbutton		
Power		1 x Rocker			
LEDs	On Line / Selected	2 (Orange)	4 (Orange)	8 (Orange)	
	CAC activated	2 (Green)	4 (Green)	8 (Green)	
	Power	1 (Blue)			
	Key Lock LED	3 (Green; Num Lock, Caps Lock, Scroll Lock)			
	Console Video	2 (Green, on back panel)			
Emulation	Keyboard/Mouse	USB			
Video		Max. 3840 x 2160 @ 30 Hz (UHD); 1920 x 1080 (FHD)			

Scan Interval		N/A		
I/P Rating		100–240V~ ; 50-60 Hz; 1A		
Environment	Operating Temp.	0–50°C		
	Storage Temp.	-20–60°C		
	Humidity	0–80% RH, Non-condensing		
Physical Properties	Housing	Metal		
	Weight	2.12kg	2.13kg	3.35kg
	Dimensions (L x W x H) mm	335 x 164 x 66 mm	335 x 164 x 66 mm	432 x 205 x 66 mm

ATEN DVI Single Display Secure KVM

Function		CS1182D	CS1184D	CS1188D	
Computer Connections	Direct	2	4	8	
	Max.	2	4	8	
Console Connections		1 Direct			
Port Selection		Pushbutton			
Connectors	Console Ports	Keyboard	1 x 6-pin Mini-DIN Female (Purple) 1 x USB Type A Female (2/4-Port Black; 8-Port White)		
		Video	1 x DVI-I Dual Link Female (White)		
		Mouse	1 x 6-pin Mini-DIN Female (Green) 1 x USB Type A Female (2/4-Port Black; 8-Port White)		
		Speaker	1 x Mini Stereo Jack Female (Green)		
		Microphone	N/A		
		CAC	1 x USB Type A Female (Black)		
	KVM Ports	Keyboard/ Mouse	2 x USB Type-B Female (White)	4 x USB Type-B Female (White)	8 x USB Type-B Female (White)
		Video	2 x DVI-I Dual Link Female (White)	4 x DVI-I Dual Link Female (White)	8 x DVI-I Dual Link Female (White)
		CAC	2 x USB Type-B Female (White)	4 x USB Type-B Female (White)	8 x USB Type-B Female (White)
		Speaker	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)	8 x Mini Stereo Jack Female (Green)
		Microphone	N/A		
Power		1 x 3-prong AC Socket			

Switches	Port	2 x Pushbuttons	4 x Pushbuttons	8 x Pushbuttons
	Reset	1 x Semi-recessed Pushbutton		
	Power	1 x Rocker		
LEDs	On Line / Selected	2 (Orange)	4 (Orange)	8 (Orange)
	CAC activated	2 (Green)	4 (Green)	8 (Green)
	Power	1 (Blue)		
	Key Lock LED	3 (Green; Num Lock, Caps Lock, Scroll Lock)		
	Video	1 (Green, on back panel)		
Emulation	Keyboard/Mouse	USB		
Video	3840 x 2160 @ 30 Hz*; DVI Dual Link: 2560 x 1600; DVI Single Link: 1920 x 1200; DVI-A: 2048 x 1536			
Scan Interval	N/A			
I/P Rating	100–240V~ ; 50-60 Hz; 1A			
Environment	Operating Temp.	0–50°C		
	Storage Temp.	-20–60°C		
	Humidity	0–80% RH, Non-condensing		
Physical Properties	Housing	Metal		
	Weight	1.78kg	1.79kg	3.05kg
	Dimensions (L x W x H)	335 x 164 x 44 mm	335 x 164 x 44 mm	432 x 205 x 66 mm

* 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 DVI Dual Display Secure KVM

Function		CS1142D	CS1144D	CS1148D
Computer Connections	Direct	2	4	8
	Max.	2	4	8
Console Connections		1 Direct		
Port Selection		Pushbutton		
Connectors	Console Ports	Keyboard	1 x 6-pin Mini-DIN Female (Purple) 1 x USB Type A Female (2/4-Port Black; 8-Port White)	
		Video	2 x DVI-I Dual Link Female (White)	
		Mouse	1 x 6-pin Mini-DIN Female (Green) 1 x USB Type A Female (2/4-Port Black; 8-Port White)	

	Speaker	1 x Mini Stereo Jack Female (Green)			
	Microphone	N/A			
	CAC	1 x USB Type A Female (Black)			
	KVM Ports	Keyboard/ Mouse	2 x USB Type-B Female (White)	4 x USB Type-B Female (White)	8 x USB Type-B Female (White)
		Video	4 x DVI-I Dual Link Female (White)	8 x DVI-I Dual Link Female (White)	16 x DVI-I Dual Link Female (White)
		CAC	2 x USB Type-B Female (White)	4 x USB Type-B Female (White)	8 x USB Type-B Female (White)
		Speaker	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)	8 x Mini Stereo Jack Female (Green)
Microphone	N/A				
Power	1 x 3-prong AC Socket				
Switches	Port	2 x Pushbuttons	4 x Pushbuttons	8 x Pushbuttons	
	Reset	1 x Semi-recessed Pushbutton			
	Power	1 x Rocker			
LEDs	On Line / Selected	2 (Orange)	4 (Orange)	8 (Orange)	
	CAC activated	2 (Green)	4 (Green)	8 (Green)	
	Power	1 (Blue)			
	Key Lock LED	3 (Green; Num Lock, Caps Lock, Scroll Lock)			
	Console Video	2 (Green, on back panel)			
Emulation	Keyboard/Mouse	USB			
Video	3840 x 2160 @ 30 Hz*; DVI Dual Link: 2560 x 1600; DVI Single Link: 1920 x 1200; DVI-A: 2048 x 1536				
Scan Interval	N/A				
I/P Rating	100–240V~ ; 50-60 Hz; 1A				
Environment	Operating Temp.	0–50°C			
	Storage Temp.	-20–60°C			
	Humidity	0–80% RH, Non-condensing			
Physical Properties	Housing	Metal			
	Weight	2.12kg	2.13kg	3.35kg	
	Dimensions (L x W x H)	335 x 164 x 66 mm	335 x 164 x 66 mm	432 x 205 x 66 mm	

* 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

Limited Warranty

IN NO EVENT SHALL THE DIRECT VENDOR'S LIABILITY EXCEED THE PRICE PAID FOR THE PRODUCT FROM DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE PRODUCT, DISK, OR ITS DOCUMENTATION.

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