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Universal 2nd Gen Secure DP/HDMI to DP/HDMI KVM Switch

*This Belkin product is compliant with latest
NIAP Protection Profile PSD v4.0, which
exceeds Protection Profile PSS v3.0.*



User Manual

F1DN108KVM-UN-4 – Universal Secure 8-Port Single-Head KVM with CAC, PP 4.0
F1DN208KVM-UN-4 – Universal Secure 8-Port Dual-Head KVM with CAC, PP 4.0
F1DN116KVM-UN-4 – Universal Secure 16-Port Single-Head KVM with CAC, PP 4.0

TABLE OF CONTENTS

Table of Contents	SECTIONS	1	2	3	4	5	6	7	
Introduction									1
Package Contents									1
Safety Precautions.....									2
User Guidance & Precautions									3
Overview									4
Security Features.....									4
Tamper Evident Labels									5
Other Features									6
Equipment Requirements.....									8
System Requirements.....									9
Unit Display Diagrams									10
Specifications.....									14
Installation									16
Pre-Configuration									16
Connection and Installation.....									17
Color Coding the Channel Buttons									19
Operating the KVM Switch									20
Common access Card (CaC) Configuration and Operation									21
Troubleshooting									22
Information									26

INTRODUCTION

Thank you for purchasing this Belkin Secure DisplayPort/HDMI KVM. This Switch is designed for use in secure environment installations. The Switch offers safe centralized control, which prevents unintended data transfer between computers running at different security levels. The Switch provides the highest security safeguards and features that meet today's Information Assurance (IA) computing requirements.

Belkin Universal Secure DisplayPort/HDMI KVM is especially challenging in terms of security as DisplayPort is a very robust protocol by nature, which is capable of transferring various types of information, such as USB and Ethernet other than display. Belkin has developed this unique Secure KVM switch with the highest possible security in mind, assuring no leakage of information between connected computers through any channels including DP dedicated channels.

This User Manual provides all the details you'll need to install and operate your new Switch, in addition to expert troubleshooting advice—in the unlikely event of a problem.

Please note: Belkin Secure KVMs cannot be upgraded, serviced or fixed.

Package Contents

- Belkin Advanced Secure DisplayPort/HDMI KVM
- AC power cord with WW interchangeable mains connectors
- QIG (Quick Installation Guide)

Important: This product is equipped with an always-on active anti-tamper system. Any attempt to open the enclosure may activate the anti-tamper system and render the unit permanently inoperable. If the unit's enclosure appears disrupted or if all the port LEDs flash continuously, please call Belkin Technical Support toll-free at (800) 282-2355.

Revision

A – Initial Release, September 2022

Reporting Belkin Product Security Vulnerability

If you are aware of potential security vulnerability while installing or operating this product, we encourage you to contact us immediately at the following email address: gov_security@belkin.com

Safety Precautions

Please read the following safety precautions carefully before using the product:

- Before cleaning, disconnect the product from any electrical power supply.
- Do not expose the product to excessive humidity or moisture.
- Do not store or use for extensive period of time in extreme thermal conditions – it may shorten product lifetime.
- Install the product only on a clean secure surface.
- If the product is not used for a long period of time, disconnect it from electrical power.
- If any of the following situations occurs, have the product checked by a qualified service technician:
 - Liquid penetrates the product’s case.
 - The product is exposed to excessive moisture, water or any other liquid.
 - The product is not working well even after carefully following the instructions in this user’s manual.
 - The product has been dropped or is physically damaged.
 - The product shows obvious signs of breakage or loose internal parts.
 - In case of external power supply – If power supply overheats, is broken or damaged, or has a damaged cable.
- The product should be stored and used only in temperature and humidity-controlled environments as defined in the product’s environmental specifications.
- Never attempt to open the product enclosure. Any attempt to open the enclosure will permanently damage the product.
- The product contains a non-replaceable internal battery. Never attempt to replace the battery or open the enclosure.
- This product is equipped with an always-on active anti-tampering system. Any attempt to open the product enclosure will activate the anti-tamper triggers and render the unit inoperable and warranty void.

User Guidance & Precautions

Please read the following User Guidance & Precautions carefully before using the product:

1. By default, after product power-up, the active channel is #1.
2. The appropriate usage of peripherals (e.g., keyboard, mouse, display, authentication device) is described in detail in this User Manual's appropriate sections. Do not connect any authentication device with an external power source to product.
3. For security reasons products do not support wireless keyboards and mice. In any case do not connect wireless keyboard/mouse to product.
4. For security reasons products do not support microphone/line-in audio input. In any case do not connect a microphone to product audio output port, including headsets.
5. Product is equipped with an always-on active anti-tampering system. Any attempt to open product enclosure will activate the anti-tamper system indicated by all channel-select LEDs flashing continuously. In this case, product will be inoperable and warranty void. If product enclosure appears disrupted or if all channel-select LEDs flash continuously, please remove product from service immediately and contact technical support.
6. Connecting external USB devices to product CAC port (if equipped):
 - a. When connecting a USB device that is not qualified or rejected for security reasons to product's CAC port, the CAC LED will flash green and USB device will be inoperable.
 - b. When connecting a USB device that is undetectable for any reason (e.g. failed device, non-standard device etc.) to product's CAC port, the CAC LED will not illuminate at all and device will be inoperable.
7. Do not connect product to computing devices:
 - a. That include telecommunication equipment;
 - b. That include frame grabber video cards;
 - c. That include special audio processing cards.
8. Product has a remote control port in the back panel labeled "Remote"
9. **Important!** Before re-allocating computers to channels, it is mandatory to power cycle product, keeping it powered OFF for more than 1 minute.
10. Product log access and administrator configuration options are described in product Administrator Guide.
11. If you are aware of any potential security vulnerability while installing or operating product, please remove product from service immediately and contact us in one of the ways listed in this manual.

OVERVIEW

Security Features

The product is designed, manufactured and delivered in security-controlled environments. Below is a summary of the main advanced features incorporated in product:

Advanced isolation between computers and shared peripherals

The emulations of keyboard, mouse and display EDID, prevent direct contact between computers and shared peripherals. Product design achieves maximal security by keeping the video path separate with keyboard and mouse switched together, purging the keyboard buffer when switching channels. All these features contribute to strong isolation between computer interfaces, maintained even when product is powered off.

Unidirectional data flow: USB, audio and video

Unique hardware architecture components prevent unauthorized data flow, including:

- Optical unidirectional data flow diodes in the USB data path that filtrate and reject unqualified USB devices;
- Secure analog audio diodes that prevent audio eavesdropping with no support for microphone or any other audio-input device;
- Video path is kept separate from all other traffic, enforcing unidirectional native video flow. EDID emulation is done at power up and blocks all EDID/MCCS writes. For DisplayPort video, filtration of AUX channel exists to reject unauthorized transactions.

Isolation of power domains

Complete isolation of power domains prevents signaling attacks.

Secure administrator access & log functions

The product incorporates secure administrator access and log functions to provide auditable trail for all product security events, including battery backup life for anti-tampering and log functions. Non-reprogrammable firmware prevents the ability to tamper with product logic. Configuration of front panel LEDs and CAC (if equipped) are covered in the PP4.0 Admin manual.

Always-on, active anti-tamper system

Active anti-tampering system prevents malicious insertion of hardware implant such as wireless key-logger inside product enclosure. Any anti-tampering attempt causes isolation of all computers and peripheral devices rendering product inoperable and showing clear indications of a tampering event to the user.

Holographic security tamper-evident labels are placed on the enclosure to provide a clear visual indication if product has been opened or compromised.

Metal enclosure is designed to resist mechanical tampering with all microcontrollers protected against firmware-read, modification and rewrite.

OVERVIEW

Table of Contents

SECTIONS

1

2

3

4

5

6

7

Tamper Evident Labels

Belkin Secure Switch uses holographic tamper evident labels to provide visual indications in case of enclosure intrusion attempt.

If for any reason the tamper evident seal is missing, appears disrupted, or looks different than the example shown here, please avoid using the product and call Belkin Technical Support at: (800) 282-2355.



Active Anti-Tampering System

Belkin Secure Switch is equipped with an always-on active anti-tampering system. If mechanical intrusion is detected by this system, the Switch will be permanently disabled and LED will blink continuously.

If product indication tampered state (all LEDs blinking) - please call Technical Support and avoid using that product

Product Enclosure Warning Label

Belkin Secure Switch has the following warning printed next to the location of the product Asset Tag and Tamper Evident labels on product enclosure:

WARNING: This enclosure is tamper proof. The unit will self destruct if opened.

Tamper Evident Label
Do not use if disturbed.

OVERVIEW

Table of Contents

SECTIONS

1

2

3

4

5

6

7

Other Features

The Belkin Universal Secure DisplayPort/HDMI KVM was designed with the user in mind for today's IT environment. Below is a summary of some features incorporated into the Switch.

Protected Display Information

Protected DDC/EDID emulation prevents software weaknesses that can cause data leakage while maintaining compatibility with the console display.

USB Device Detection

Storage and other unsafe USB devices are rejected when connected to the Switch. Only mouse, keyboard, and CAC reader data are passed through.

Secure Packaging

"Tear away" packaging ensures secure delivery of the Switch as it is routed to the end user. The recyclable packaging also breaks down flat, simplifying the cleanup process.

USB Support

The Switch is compatible with USB technology and supports plug-and-play connectivity with USB computers, keyboards, mice, and CAC readers.

User Display

The Belkin Universal Secure DisplayPort/HDMI KVM is compatible with the following types of user displays:

- DisplayPort 1.2 or HDMI 2.0 capable display (console connection).
- DisplayPort 1.2 or HDMI 2.0 capable display (console connection).
- DVI capable displays with cables passive connection cables (see Belkin.com for details).

Audio Switching

Allows you to share speakers between computers.

OVERVIEW

Table of Contents

SECTIONS

1

2

3

4

5

6

7

Port Coloring

The front panel LEDs can be configured by an administrator to maximize identification of multiple enclaves. Consult the PP4.0 Admin manual for details.

Port Naming

The included network-name labels can be placed in the area underneath the port-selector button to facilitate port identification and reduce user switching error.

LED Indicators

Each port button number and port button outline illuminates to indicate that the console currently controls the corresponding computer. As a port selector is pushed, the LED number and button outline will light up.

Integrated Mounting Rails

Integrated mounting system for easy under-desk or side-wall mounting.

USB Connectors

High-retention USB connectors keep the USB connections secure and tight, preventing accidental disconnections.

Increased Reliability

Using a new, advanced anti-tampering battery with an extremely low self-discharge rate the life expectancy of the switch has been increased dramatically to over 7 years.

OVERVIEW

Equipment Requirements

Cables

The Universal SKVM can accommodate DP, HDMI, and DVI PC connections. Belkin highly recommends you use Belkin DisplayPort, HDMI, or DVI passive conversion/USB KVM Cable Kits for your Switch to help ensure superior performance. These cables offer the highest quality possible to ensure optimal data and video transmission. One Cable Kit is required per connected computer.

Note: The video connectors can accept a Display Port or HDMI cable. Proper insertion of an HDMI cable should be followed, as the connector can be damaged by improper insertion.

Belkin currently available cables:

<http://www.belkin.com/us/products/business/cybersecurity-secure-kvm/c/cables-and-secure-accessories>

Note: Due to USB and DisplayPort signal limitations, the cable total length cannot exceed 10 feet (3.5m), unless a USB extender is used

System Requirements

Operating Systems

Product is compatible with devices running on the following operating systems:

- Microsoft® Windows®
- Red Hat®, Ubuntu® and other Linux® platforms
- Mac OS® X v10.3 and higher.

USB Keyboard console port

The product console USB keyboard port is compatible with Standard USB keyboards.

Notes:

- a. Console USB keyboard and mouse ports are switchable, i.e., you can connect keyboard to mouse port and vice versa. However, for optimal operation it is recommended to connect USB keyboard to console USB keyboard port and USB mouse to console USB mouse port.
- b. For security reasons products do not support wireless keyboards. In any case do not connect wireless keyboard to product.
- c. Non-standard keyboards, such as keyboards with integrated USB hubs and other USB-integrated devices, may not be fully supported due to security policy. If they are supported, only classical keyboard (HID) operation will be functional. It is recommended to use standard USB keyboards.

USB Mouse console port

The product console USB mouse port is compatible with standard USB mice.

Notes:

- a. Console USB keyboard and mouse ports are switchable, i.e., you can connect keyboard to mouse port and vice versa. However, for optimal operation it is recommended to connect USB keyboard to console USB keyboard port and USB mouse to console USB mouse port.
- b. Console USB mouse port supports Standard KVM Extender composite device having a keyboard/mouse functions.
- c. For security reasons products do not support wireless mice. In any case do not connect wireless mouse to product.

User Display

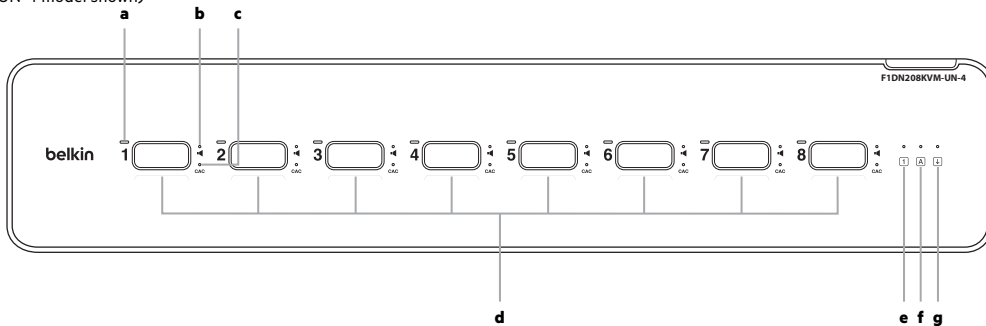
The console video ports are compatible with DisplayPort1.1/1.2 and HDMI 2.0.

OVERVIEW

Unit Display Diagrams

Unit Display Diagram, front view

(F1DN208KVM-UN-4 model shown)



- | | | | |
|----------|---------------------|----------|-------------|
| a | Active port | e | Num Lock |
| b | Audio active | f | Caps Lock |
| c | CAC/DPP active | g | Scroll Lock |
| d | Channel Buttons 1-8 | | |

OVERVIEW

Table of Contents

SECTIONS

1

2

3

4

5

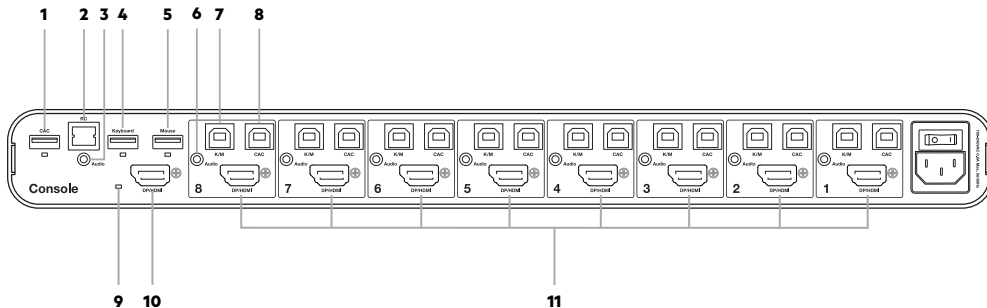
6

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Unit Display Diagram, back view

(F1DN108KVM-UN-4 model shown)

NOTE: The video connectors can accept a Display Port or HDMI cable.



- 1 Console USB CAC Reader Port and LED
- 2 RC port
- 3 Console Audio out jack
- 4 Console USB Keyboard Port
- 5 Console USB Mouse Port
- 6 Computer Audio port

- 7 Computer USB KM port
- 8 Computer CAC USB Port
- 9 Video Diagnostic LED
- 10 Console DP/HDMI Port
- 11 Computer DP/HDMI Port

OVERVIEW

Table of Contents

SECTIONS

1

2

3

4

5

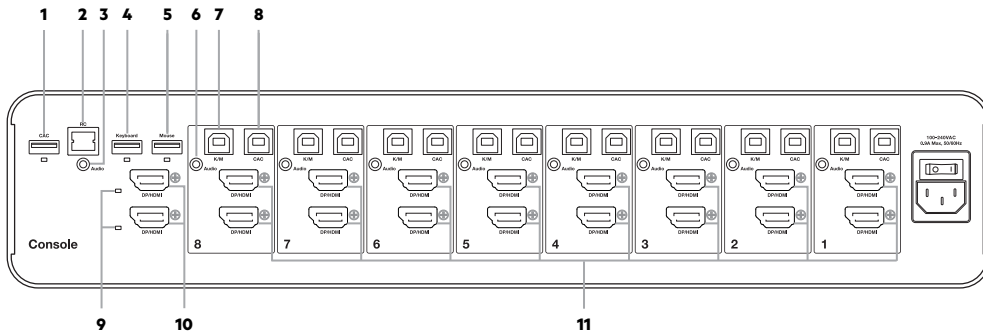
6

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Unit Display Diagram, back view

(F1DN208KVM-UN-4 model shown)

NOTE: The video connectors can accept a Display Port or HDMI cable.



- 1 Console USB CAC Reader Port and LED
- 2 RC port
- 3 Console Audio out jack
- 4 Console USB Keyboard Port
- 5 Console USB Mouse Port
- 6 Computer Audio port

- 7 Computer USB KM port
- 8 Computer CAC USB Port
- 9 Video Diagnostic LED
- 10 Console DP/HDMI Port
- 11 Computer DP/HDMI port

OVERVIEW

Table of Contents

SECTIONS

1

2

3

4

5

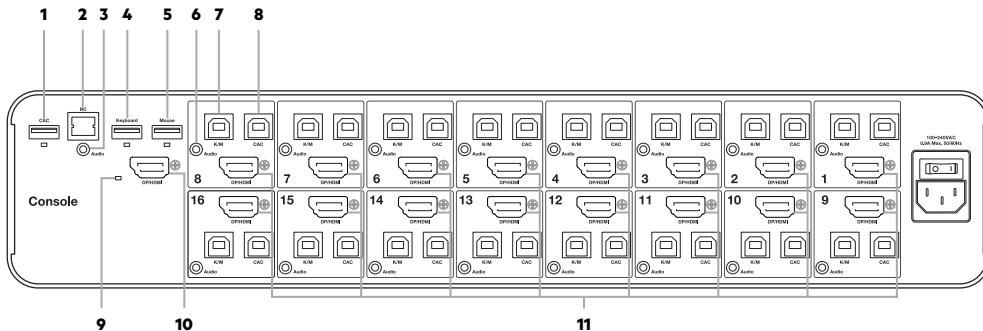
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Unit Display Diagram, back view

(F1DN116KVM-UN-4 model shown)

NOTE: The video connectors can accept a Display Port or HDMI cable.



- 1 Console USB CAC Reader Port and LED
- 2 RC port
- 3 Console Audio out jack
- 4 Console USB Keyboard Port
- 5 Console USB Mouse Port
- 6 Computer Audio port

- 7 Computer USB KM port
- 8 Computer CAC USB Port
- 9 Video Diagnostic LED
- 10 Console DP/HDMI Port
- 11 Computer DP/HDMI port

OVERVIEW

Table of Contents

SECTIONS

1

2

3

4

5

6

7

Specifications

Part No.	F1DN108KVM-UN-4 F1DN208KVM-UN-4 F1DN116KVM-UN-4
Enclosure Faceplate	Stainless-steel enclosure with aluminum faceplate
Power Requirements	100-240 VAC, 0.9A Max, 50/60Hz
AC Input	100 to 240VAC
No. of Users Supported	1
No. of Computers Supported	8 or 16 by model
No. of monitors per computer supported	1 or 2 by model
Video supported	All Models Display Port/HDMI capable for all inputs and outputs

Max Resolution supported	HDMI 2.0 and DisplayPort 1.2 ports support UHD 4K resolutions of up to 3840x2160 pixels @ 60Hz.
Console Keyboard Port	USB Type A female connector
Console Mouse Port	USB Type A female connector
Console CAC Input	USB Type A
Console Monitor Port	1 or 2 x DP/HDMI Combo female connector dependant on model
Console Speaker	1/8" (3.5mm) female
CPU Keyboard/Mouse Ports	USB Type B
CPU CAC Ports	USB Type B
CPU Keyboard/Mouse Ports	USB Type B
CPU Audio	1/8" (3.5mm) female

OVERVIEW

Table of Contents	SECTIONS	1	2	3	4	5	6	7
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CPU Monitor Ports	1 or 2 x DisplayPort/HDMI 1.2 female connector dependant on model
Port Selectors	8 or 16
LED Indicators	8 or 16
User Channel Selection Methods	Front-panel push buttons
Operating Temp	32° to 104° F (0° to 40° C)
Storage Temp	-4° to 140° F (-20° to 60° C)
Humidity	0-80% RH, non-condensing
Dimensions	F1DN108KVM-UN-4 17.2 (W) x 1.6 (H) x 8.1 (D) inches / 436.9 (W) x 40.6 (H) x 205.7 (D) mm F1DN208KVM-UN-4 17.2 (W) x 3.5 (H) x 8.1 (D) inches / 436.9 (W) x 88.9 (H) x 205.7 (D) mm F1DN116KVM-UN-4 17.2 (W) x 3.5 (H) x 8.1 (D) inches / 436.9 (W) x 88.9 (H) x 205.7 (D) mm

Weight	F1DN108KVM-UN-4 9.8 lbs.(4.4 kg) F1DN208KVM-UN-4 13.07lbs.(5.9 kg) F1DN116KVM-UN-4 13.76 lbs.(6.24 kg)
Made in	Designed in California. Assembled in US with US and Foreign components.
Product Lifecycle	5 years
Warranty	3 years (extended warranty available)
Security Accreditation	Common Criteria Validated To NIAP Protection Profile PSD Ver. 4.0

INSTALLATION

Pre-Configuration

Where to place the Switch:

The enclosure of the Switch is designed for desktop or rack-mount configuration. Rack-mount brackets are included with the Switch.

Consider the following when deciding where to place the Switch:

- Your proximity to the port selectors on the front of the Switch
- The lengths of the cables attached to your keyboard, monitor, and mouse
- The location of your computers in relation to your console
- The lengths of the cables you use to connect your computers to the Switch

Warning: Avoid placing cables near fluorescent lights, air-conditioning equipment, or machines that create electrical noise (e.g., vacuum cleaners).

Important:

If the unit's enclosure appears disrupted or if all channel-select LEDs flash continuously, please remove product from service immediately and contact Belkin Technical Support at (800) 282-2355.

1. Do not connect product to computing devices:
 - a. That are TEMPEST computers;
 - b. That include telecommunication equipment;
 - c. That include frame grabber video cards;
 - d. That include special audio processing cards.

Connection and Installation

Step 1 – Connecting the Console to the Switch

Step 2 – Warning: Before attempting to connect anything to the Switch or your computers, please ensure that all computer equipment and devices are powered off.

Connect your monitor, keyboard, mouse, and speaker to the rear of the Switch in the “User Console” section.

Notes:

1. Console USB keyboard and mouse ports are switchable, i.e., you can connect keyboard to mouse port and vice versa. However, for optimal operation it is recommended to connect USB keyboard to console USB keyboard port and USB mouse to console USB mouse port.
2. For security reasons products do not support wireless keyboards. In any case do not connect wireless keyboard to product.
3. Non-standard keyboards, such as keyboards with integrated USB hubs and other USB-integrated devices, may not be fully supported due to security policy. If they are supported, only classical keyboard (HID) operation will be functional. It is recommended to use standard USB keyboards.
4. Console USB mouse port supports Standard KVM Extender composite device having keyboard/mouse functions.

Step 3 – Power Up

Step 4 – Turn the monitor on.

- 4.1 Power up the Belkin Advanced Secure DisplayPort KVM by connecting the power. The display diagnostic LED should be solid green a few seconds after power up. This indicates the display EDID information has been captured and secured.

Step 5 – Connecting the Computers

- 5.1 Using USB cables, connect each computer to the USB port in “computer interface ports” area on product.
- 5.2 If computer uses audio output, e.g., speakers/headphones, connect audio cable from its audio output port to the corresponding audio input port on product.
 - Audio can be frozen on a channel (if equipped) and allow for the operator to hear the frozen channel audio when switched to another channel. An audio channel can be frozen by pressing and holding the channel button to be frozen for 3 seconds. The audio freeze light will illuminate. To disable the freeze, press and hold the channel button for 3 seconds. The freeze light will extinguish.
- 5.3 If the computer uses a smart card/CAC reader, connect a USB cable between the CAC-enabled computer and the corresponding CAC port on product.

Note:

1. If the number of channels is larger than the number of sources used, make sure the computers are connected in a row starting from computer #1. For example, if there are 3 channels used, connect computers to channels #1, #2 and then #3.
2. The USB cable must be connected directly to a free USB port on the computer, with no USB hubs or other devices in between.

Powering Up the Computers

Power up all the attached computers and check for display and peripheral functionality. All computers can be powered on simultaneously.

Note: Your computers should recognize the Switch and automatically install the HID USB driver if necessary.

When you power on your computers, the Switch emulates both a mouse and keyboard on each port and allows your computers to boot normally. The computer connected to port “1” will be displayed on the monitor. Check to see that the keyboard, monitor, and mouse are working normally. Proceed to do this with all occupied ports to verify that all computers are connected and responding correctly. If you encounter an error, check your cable connections for that computer and reboot. If the problem persists, please refer to the Troubleshooting section in this User Manual.

Color Coding the Channel Buttons

The Belkin Advanced Secure DisplayPort KVM's port-selector button outlines can be color-coded for easier identification. Refer to the Administrator manual for details. This item is not user configurable.

Port Name Label

The included network-name and blank labels can be placed in the area underneath the port-selector buttons for port identification.

Please note that the default port at power-up is port 1. In case of a power failure or if the power is cycled, the switch will default to port 1.

OPERATING THE KVM SWITCH

Selecting a Computer Using Port Selectors

Now that you have connected your console and computers to the Switch, it is ready for use. You can select which computer you wish to control by pressing the corresponding port selector on the front of the Switch. The LED number will illuminate to indicate which computer (or port) is currently selected. Keyboard and mouse inputs can only be sent to the selected computer, and video outputs can only be received from the selected computer. The Switch also prevents any data transfer between connected computers, ensuring the security of your computers.

Please note that the default port at power-up is port 1. In case of a power failure or if the power is cycled, the Switch will default to port 1.

COMMON ACCESS CARD (CAC) CONFIGURATION AND OPERATION

CAC connection to the computer requires a separate USB cable connection and allows the user to specify whether there is a CAC required for that computer or not. This allows the CAC to be connected and controlled separately to the keyboard, mouse, video and audio.

Step 1 – Installation

- 1.1 Using the included USB cable, connect one end of the cable to the computer that requires CAC, and the other end to the CAC port on the Belkin Advanced Secure DisplayPort KVM that corresponds to the computer.
- 1.2 If only some of the computers use CAC functionality, make sure that computer #1 is connected to the CAC device. If needed, switch channels/computer mapping to create this configuration.
- 1.3 If CAC is connected it is automatically enabled.

Note: Make sure that the CAC switch is disabled (left) for all other non-connected CAC systems.

- 1.4 Once configured, the CAC connection will be switched only when required by the connected computer. When switching from a CAC enabled port to a non-CAC enabled port, the CAC connection can be frozen to the CAC enabled port by pressing the CAC enabled channel button 3 times in rapid succession. The CAC freeze light will illuminate. To disable CAC freeze, press the channel button three times in rapid succession to remove the freeze.

TROUBLESHOOTING

General

My computer does not boot when connected to the switch but works fine when I connect my keyboard, video, and mouse directly to my computer.

- Make sure that the DP-HDMI/USB KVM Cable Kit is connected tightly between the Switch and the computer.

The Switch does not turn on.

- Ensure that the AC power cord is securely connected to both the AC inlet and to the wall outlet.
- Check that the power switch is in the ON position.

The Switch makes rapid clicking noises and the port LEDs flash continuously when turned on.

- If the clicking noises continue, the unit may have been tampered with or experienced severe impact.

NOTE: This Switch is equipped with active anti-tamper triggers. Any attempt to open the enclosure will activate the anti-tamper triggers and render the unit inoperable. If the unit's enclosure appears disrupted or if all the port LEDs flash continuously, please call Belkin Technical Support at **(800) 282-2355**.

Video

I am getting ghosting, shadowing, or fuzzy images on my monitor.

- Check that all video cables are inserted properly to the Switch, computer, and monitor.
- With everything connected, power-cycle the Belkin Advanced Secure DisplayPort KVM to reset the video.
- Make sure the Video Diagnostic LED is solid green.
- Check that the monitor you are using supports the resolution and refresh-rate setting on your computer.
- Lower the video resolution of your monitor.
- Check that the video-cable length does not exceed 15 feet (4.6m).
- Check that the graphics card you are using supports the resolution and refresh-rate setting on your computer.
- Connect the monitor directly into the computer you are having trouble with to see if the problem still appears.
- Do not use video splitters.

I am getting a blank screen on my monitor.

- Ensure that the power switch is in the ON position.
- Check that the display is turned on.
- Check that the cables are connected, and check that the display input is DisplayPort or HDMI.
- Check that all video cables are inserted properly.
- Ensure that the power cord is inserted securely to the AC inlet.
- Connect your monitor directly to the computer to verify that your monitor is functioning properly.
- Reboot the computer.
- Try a different video cable.
- Try a different monitor.
- Ensure to download the latest display drivers.

I have difficulty inserting a DisplayPort or HDMI cable into the Switch.

- Check that the connectors are not bent or damaged.
- Check if the contacts on the Switch DisplayPort connectors are not bent or damaged.

Keyboard

The computer does not detect my keyboard, or my keyboard does not work when I switch computers or reboot.

- Check that the keyboard you are using is connected properly to the Switch, in the USB port labeled “Keyboard.”
- Check that the USB cable between the Switch and the computer is completely connected.
- Try connecting to a different USB port on the computer.
- Make sure the keyboard works when directly plugged into the computer (the HID USB driver is installed on the computer). Rebooting may be necessary when trying this.
- Make sure you are not using a keyboard with an integrated USB hub or other USB-integrated devices.
- If the computer is coming out of standby mode, allow up to one minute to regain mouse function.
- Try a different keyboard.
- Do not use a USB extension cable.

The CAPS, NUM, and Scroll Lock lights on my keyboard do not function when I connect to the Belkin Advanced Secure DisplayPort KVM.

This is normal operation. Due to the security of the Belkin Advanced Secure DisplayPort/HDMI KVM and known exploitation of lock-state information for leakages, the LED status on the keyboard is not supported. The KVM front panel has lights to be used for these indicators.

Mouse

The computer does not detect my mouse, or my mouse does not work when I switch computers or reboot.

- Check that the mouse you are using is connected properly to the Switch in the USB port labeled “Mouse.”
- Check that the USB cable between the Switch and the computer is completely connected.
- Try connecting to a different USB port on the computer.
- Make sure the mouse works when directly plugged into the computer (the HID USB driver is installed on the computer). Rebooting may be necessary when trying this.
- If the computer is coming out of standby mode, allow up to one minute to regain mouse function.
- Try a different mouse.

CAC Related Faults

The CAC reader is not functioning.

- Check to see if the LED is illuminated for the CAC reader.
- Try using the CAC reader on a different KVM channel.
- Try a different CAC reader.
- Consult the administrator manual for details on 'White Listing' a device.

Important Security Note:

If you are aware of potential security vulnerability while installing or operating this product, we encourage you to contact us immediately at the following email address: gov_security@belkin.com

The gov_security@belkin.com email address is not intended to reach technical support on Belkin products or services.

Regulatory Information

DECLARATION OF CONFORMITY WITH FCC RULES FOR ELECTROMAGNETIC COMPATIBILITY

We, Belkin International, Inc., 555 S. Aviation Blvd. Suite 180, El Segundo, CA 90245-4852, declare under our sole responsibility that the products described in this manual comply to the declaration found at:

<https://www.belkin.com/us/support-article?articleNum=316284>

Warranty

Belkin International, Inc., Limited 3-Year Product Warranty

Please see

<http://www.belkin.com/us/support-article?articleNum=287088> for complete Warranty details

What this warranty covers.

Belkin International, Inc. (“Belkin”) warrants to the original purchaser of this Belkin product that the product shall be free of defects in design, assembly, material, or workmanship.

What the period of coverage is.

Belkin warrants the Belkin product for three years.

What will we do to correct problems?

Product Warranty.

Belkin will repair or replace, at its option, any defective product free of charge (except for shipping charges for the product). Belkin reserves the right to discontinue any of its products without notice, and disclaims any limited warranty to repair or replace any such discontinued products. In the event that Belkin is unable to repair or replace the product (for example, because it has been discontinued), Belkin will offer either a refund or a credit toward the purchase of another product from Belkin.com in an amount equal to the purchase price of the product as evidenced on the original purchase receipt as discounted by its natural use.

What is not covered by this warranty?

All above warranties are null and void if the Belkin product is not provided to Belkin for inspection upon Belkin's request at the sole expense of the purchaser, or if Belkin determines that the Belkin product has been improperly installed, altered in any way, or tampered with. The Belkin Product Warranty does not protect against acts of God such as flood, lightning, earthquake, war, vandalism, theft, normal-use wear and tear, erosion, depletion, obsolescence, abuse, damage due to low voltage disturbances (i.e., brownouts or sags), non-authorized program, or system equipment modification or alteration.

How to get service?**To get service for your Belkin product you must take the following steps:**

1. Contact Belkin International, Inc., at
555 S. Aviation Blvd. Suite 180, El Segundo, CA 90245-4852,
Attn: Customer Service, or call **(800)-282-2355**,
within 15 days of the Occurrence.
Be prepared to provide the following information:
 - a. The part number of the Belkin product.
 - b. The product Serial Number.
2. Your Belkin Customer Service Representative will then instruct you on how to forward your receipt and Belkin product and how to proceed with your claim.

Belkin reserves the right to review the damaged Belkin product. All costs of shipping the Belkin product to Belkin for inspection shall be borne solely by the purchaser.

If Belkin determines, in its sole discretion, that it is impractical to ship the damaged equipment to Belkin, Belkin may designate, in its sole discretion, an equipment repair facility to inspect and estimate the cost to repair such equipment. The cost, if any, of shipping the equipment to and from such repair facility and of such estimate shall be borne solely by the purchaser. Damaged equipment must remain available for inspection until the claim is finalized. Whenever claims are settled, Belkin reserves the right to be subrogated under any existing insurance policies the purchaser may have.

How state law relates to the warranty.

THIS WARRANTY CONTAINS THE SOLE WARRANTY OF BELKIN. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR, EXCEPT AS REQUIRED BY LAW, IMPLIED, INCLUDING THE IMPLIED WARRANTY OR CONDITION OF QUALITY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND SUCH IMPLIED WARRANTIES, IF ANY, ARE LIMITED IN DURATION TO THE TERM OF THIS WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

IN NO EVENT SHALL BELKIN BE LIABLE FOR INCIDENTAL, SPECIAL, DIRECT, INDIRECT, CONSEQUENTIAL OR MULTIPLE DAMAGES SUCH AS, BUT NOT LIMITED TO, LOST BUSINESS OR PROFITS ARISING OUT OF THE SALE OR USE OF ANY BELKIN PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

This warranty gives you specific legal rights, and you may also have other rights, which may vary from state to state. Some states do not allow the exclusion or limitation of incidental, consequential, or other damages, so the above limitations may not apply to you.

GS 5/15/2013

Reporting Belkin Product Security Vulnerability

If you are aware of potential security vulnerability with any Belkin Government product, we encourage you to contact us immediately at the following email address: gov_security@belkin.com or our technical support line at: **1-800-282-2355**

After your communication is received, Belkin Government personnel will contact you to follow up. To ensure confidentiality, Belkin encourages you to use PGP encryption key for secure communications.

The gov_security@belkin.com email address is not intended to reach technical support on Belkin Government products or services.

[belkin.com/cybersecurity](https://www.belkin.com/cybersecurity)

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[BACK TO TABLE OF CONTENTS >](#)