Quick Installation Guide

8/16 Port Secure Single/Dual-Head DP/HDMI-DP/HDMI KVM Switches

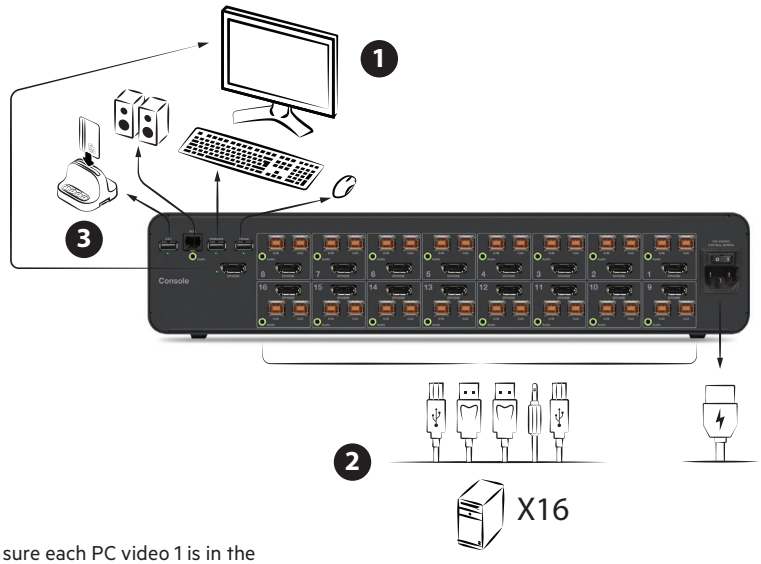
Objectives

- This guide includes instructions for installing Belkin F1DN108KVM-UN-4, F1DN208KVM-UN-4, and F1DN116KVM-UN-4 KVM Switches.
- A KVM allows sharing keyboard, video, mouse, audio and USB peripherals between multiple computers.
- This Manual and additional product documentation is available for online download on Belkin website. For further assistance please refer to: http://www.belkin.com/us/Resource-Center/Cybersecurity/Secure-KVM-Switching/.

General

- Verify that all peripherals and computers are turned OFF prior to connecting them to the product.
- The KVM's back panel is divided into sections of Console Ports and Computer Ports.
  - Connect the peripherals to be shared by the KVM to the Console Ports.
  - Connect each computer that needs access to shared peripherals to a specific Computer Ports section.
  - Make sure that every computer is connected to a separate Computer Ports section.
  - The push buttons on the product's front panel indicate which computer has current access to shared peripherals.
  - To switch peripherals between computers, press the appropriate push button on the product's front panel.
- Before installing an administrator may have a need to configure the KVM for CAC or DPP, and channel Illumination colorization. Consult your administrator for details.

F1DN116KVM-UN-4 Model is shown



❶ Connect peripherals to the KVM Console Ports:

- **Keyboard & Mouse:** Connect a USB keyboard and mouse to the corresponding KVM console port. The Keyboard and mouse connected lights (rear panel) will illuminate green. If the keyboard or mouse are not authorized, the lights will flicker or not lilluminate.
- **Video**: Connect the monitor cable to the KVM console video port. The EDID LEDs (rear panel) will operate as follows:
  - Off: no EDID
  - Flicker: EDID read in progress
  - On: EDID received

  Note: EDID is only read in the first few seconds of device boot. The secure switch does not support hot plug or swap of displays. In any swap of display(s) it is required to restart the KVM.
- **Audio peripherals**: Connect headphones / speakers to the KVM console audio-out port.
- **Common Access Card (CAC) Configuration and Operation**: Please refer to relevant section.

❷ Connect computers to the KVM Computer (Host) Ports:

- **Computer keyboard & mouse connection**: Connect each computer to the KVM keyboard & mouse computer port using a USB A to USB B cable. Connect the USB A end to the computer and the USB B end to KVM.
- **Computer Video connection:** Connect each computer to the KVM computer video port using the corresponding video cable (DisplayPort/HDMI), if two video connections exist, make sure each PC video 1 is in the bottom connector.
- **Computer audio connection**: Connect each computer to the KVM audio-in port using an audio cable. Connect one end of the cable to the computer's audio-out port using the 1/8" (3.5mm) stereo plug. Connect the other end of the audio cable to the KVM audio-in computer port.
  - Audio can be frozen on a channel 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 active light will illuminate. To disable the freeze, press and hold any channel button for 3 seconds. The audio active light will move to the active channel.

❸ Common Access Card (CAC)/DPP Configuration and Operation (If Equipped):

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 appropriate USB cable, connect one end of the cable to the computer that

requires CAC, and the other end to the CAC port on the KVM Switch that corresponds to the computer. Important Note: Do not connect the USB cable if CAC functionality is not needed for that 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.

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 active light will illuminate. To disable the freeze, press the CAC frozen channel button 3 times in rapid succession, the CAC freeze light will extinguish.

1.5 In case the connected USB device cannot be detected by the secure product, the CAC status LED will not illuminate when frozen.

The USB device will be detected only if it is fully compliant with appropriate USB standard and is included in the list of recognized USB devices defined by the administrator (see your administrator for details) when configuring CAC functionality, possible reasons for USB device not being detected:

- Non-standard USB device
- Failed USB Device

1.6 If the device is detected but is not authorized, the device will be rejected for security reasons. If the device is detected but is not authorized, the device will be rejected for security reasons. This will be indicated by a flickering or non green lit CAC connection LED (back panel). Smart card readers and CACs are included in the authorized USB devices list as standard

❹ Power ON your system:

- **Power ON the monitor/s:** Make sure that the monitor/s is/are turned ON prior to powering ON the KVM.
- **Power ON the system:** Connect all peripherals and computers to the KVM prior to powering it up. Power ON the KVM by plugging it to the AC wall outlet. By default, after product power-up, the active channel will be computer #1, indicated by the applicable front panel push button LED lit.
- **Important Notes:**
  Anti-Tamper System: This Switch is equipped with active anti-tamper triggers. Any attempt to open the enclosure will activate the anti-tamper triggers, render the unit inoperable and warranty will be void. If the unit's enclosure appears disrupted or if all the port LEDs flash continuously, please call Belkin Technical Support at (800) 282-2355.

  Product Enclosure Warning Label and Tamper Evident Labels: Belkin Secure Switch uses product enclosure warning label and holographic tamper evident labels to provide visual indications in case of enclosure intrusion attempt. If for any reason one of these seals is missing or appears disrupted, please avoid using product and call Belkin. **Technical Support at:** (800) 282-2355.

  Power ON Self-Test Procedure: As the product powers-up it performs a self-test procedure. In case of self- test failure for any reason, including jammed buttons, the product will be Inoperable and self-test failure will be indicated by abnormal LED behavior.

  In the above mentioned cases, please call Technical Support and avoid using the product, For further information please refer to the product administrator and setup guides.

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

LEDs Index:

a. Active port
b. DPP active
c. Audio active
d. Num Lock
e. Caps Lock
f. Scroll Lock

❺ Switching between computers:

Switch between computers by pressing the corresponding front panel button on the KVM. The front panel button of the selected computer will illuminate.

Supported Hardware:

The KVM switches support most standard speakers, headsets and USB keyboards and mice.

Note: For security reasons:

- Microphones or headsets with microphones should not be used and are not supported.
- Wireless keyboards, mice and audio should not be used and are not supported.

Models including "UN" in model name support DVI-D, DisplayPort and HDMI Video both from PCs and Monitors. The maximun supported resolution is 3840X2160 @60Hz.

For optimal performance and security reasons it is recommended to use Belkin cable sets to connect PCs and monitors. Belkin offers a complete line up of cables to support customer needs. Please contact your Belkin sales representative or go to Belkin Website:

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

Environmental

- Operating temperature is 32° to 104° F (0° to 40°C).
- Storage temperature is -4° to 140° F (-20° to 60°C).
- Humidity requirements are 0-80% relative humidity, non-condensing.

Operating Systems

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

Power

12-volt DC (+/- 10%) , 1.5-Amp (max)

F1DN108KVM-UN-4 Dimensions

17.2 (W)x1.6 (H)x8.1 (D) Inches, Weight: 9. . 8 Lbs
436.9 (W)x40.6 (H)x205.7 (D) mm, Weight: 4.4 kg

F1DN208KVM-UN-4 Dimensions

17.2 (W)x3.5 (H)x8.1 (D) Inches, Weight: 13.07 Lbs
436.9 (W)x88 (H)x205.7 (D) mm, Weight: 5.9 kg

F1DN116KVM-UN-4 Dimensions

17.2 (W)x3.5 (H)x8.1 (D) Inches, Weight: 13.76 Lbs
436.9 (W)x88 (H)x205.7 (D) mm, Weight: 6.24 kg

This product is certified to the NIAP Protection Profile PSS version 4.0, certification for peripheral sharing switch devices.
In addition we, Belkin International Inc, of 12045 E. Waterfront Drive, Playa Vista, CA 90094, declare under our sole responsibility that the products described in this manual comply to the declarations found at:
http://www.belkin.com/us/support-article?