

# NIAP PP 4.0–certified secure KVM switch delivering strict system isolation, 4K video, and trusted peripheral sharing

## Introduction

The Black Box KVS4-1002HV is a Secure 2-Port, Single-Head DP/HDMI to HDMI KVM Switch designed for environments where strict data separation and endpoint protection are mandatory. NIAP PP 4.0–certified, it provides hardware-enforced isolation between two connected computers, preventing data leakage and unauthorized cross-domain access while delivering up to 4K UHD video, USB keyboard/mouse control, and audio switching through a single user console.

## Applications

- Government & Defence
- Command & Control
- Secure Meeting Rooms
- Industrial Control Systems (ICS/SCADA)
- Financial Institutions

## Product Images

Front



Rear

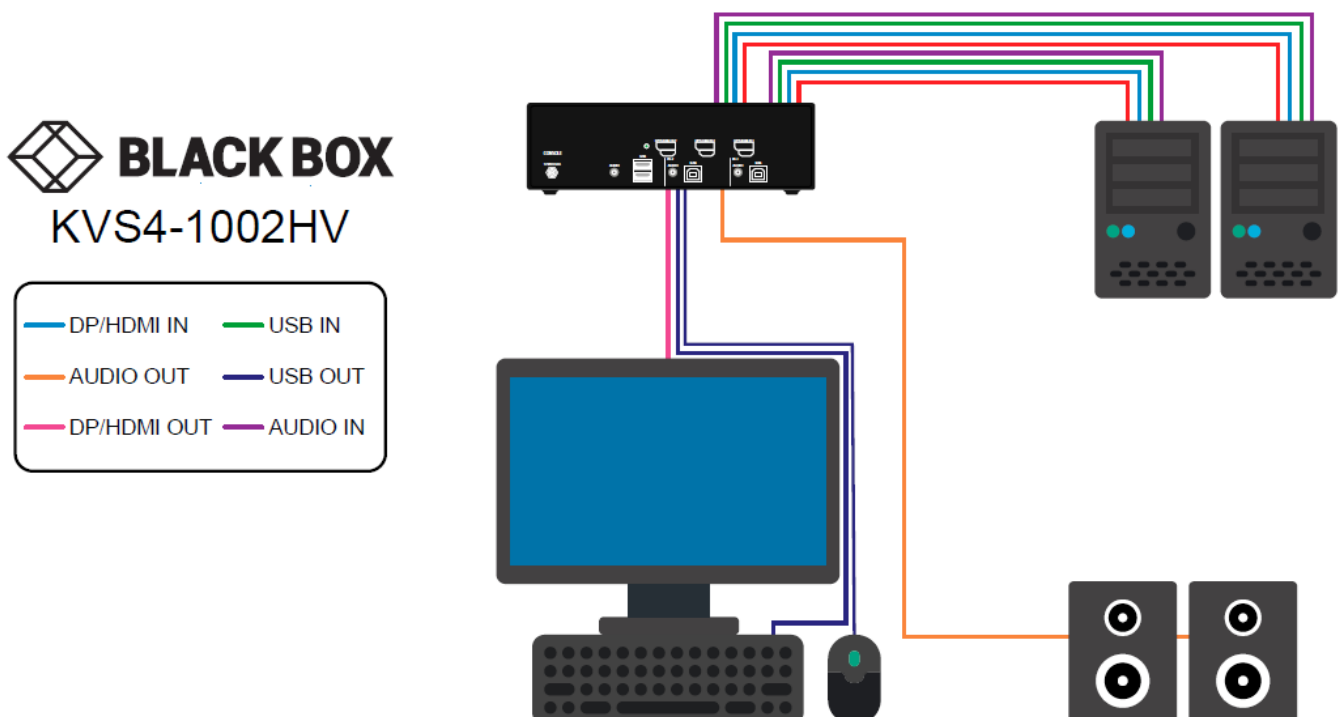


## Key Features

- **NIAP PP 4.0 certified secure KVM** – Meets the latest protection profile for peripheral sharing switches to ensure high assurance isolation between two computers operating at different security levels.
- **4K Display Support** – Supports single-head Displayport® or Hdmi input to Hdmi output with resolutions up to 3840 x 2160 at 30 Hz, delivering crisp ultra-HD video performance in secure workspaces.
- **Secure USB** – Provides secure keyboard and mouse emulation with USB 1.1 and USB 2.0 compatibility, helping maintain isolated switching between connected systems while supporting essential KM devices.
- **Balanced Audio** – Supports audio output and switching for streamlined multimedia operation in secure environments, enabling users to manage audio alongside video and peripheral control.
- **Simple LED Indicators** – Front-panel tactile buttons with LED indicators make channel selection easy and intuitive, providing clear visual confirmation of the active system.
- **High-Efficiency Power** – Includes an external Level VI efficiency power supply, supporting energy-efficient operation with a universal 100–240 VAC input range for dependable global deployment.
- **Hardened Security** – Built with non-reprogrammable ROM, active anti-tamper switches, a long-life internal anti-tampering battery, tamper-evident seals, and absolute port isolation, delivering robust protection against unauthorized access and cross-domain leakage.

## Application Diagram

### INSTALLATION DIAGRAM



## Specifications

| Video               |  | KVS4-1002HV                |
|---------------------|--|----------------------------|
| Input Interface     |  | (2) DisplayPort® or HDMI   |
| Output Interface    |  | (1) HDMI                   |
| Input Resolution    |  | Up to 4K (3840x2160 @30Hz) |
| Output Resolution   |  | Up to 4K (3840x2160 @30Hz) |
| Input Cable Length  |  | Up to 20 ft.               |
| Output Cable Length |  | Up to 20 ft.               |

| USB              |  |                                   |
|------------------|--|-----------------------------------|
| Input Interface  |  | (2) USB Type B                    |
| Output Interface |  | (2) USB 1.1 Type A for KM Devices |
| Compatibility    |  | USB 1.1 and USB 2.0 Compatible    |

| AUDIO        |  |                        |
|--------------|--|------------------------|
| Audio Input  |  | (2) 3.5mm stereo audio |
| Audio Output |  | (1) 3.5mm stereo audio |

| External PSU         |  |             |
|----------------------|--|-------------|
| Input Voltage/Volts  |  | 100-240 VAC |
| Output Voltage/Volts |  | 12 VDC      |
| Output Current/Amps  |  | 2 Amps MAX  |

| Device Power                |  |          |
|-----------------------------|--|----------|
| Input Voltage/Volts         |  | 12V DC   |
| Max Current                 |  | 1.3 Amps |
| Max power consumption       |  | 36 Watts |
| BTU (British Thermal Units) |  | 3.41     |

| Mechanical         |  |                                                       |
|--------------------|--|-------------------------------------------------------|
| Dimensions (HxWxD) |  | 2.63 " H x 8.8" W x 6.69" D (66.8 x 223.5 x 169.9 mm) |
| Weight             |  | 3.85 lb. (1.74 kg)                                    |

## Specifications (continued)

| Environmental         |                               |
|-----------------------|-------------------------------|
| Operating Temperature | 32°F to 104°F (0°C to 40°C)   |
| Storage Temperature   | -4°F to 140°F (-20°C to 60°C) |
| Humidity Operating    | up to 80% RH, non condensing  |
| Altitude Range        | < 6000 feet                   |

| Certification |                                  |
|---------------|----------------------------------|
| Regulatory    | FCC, CE, RoHS, UL                |
| Security      | NIAP Protection Profile Ver. 4.0 |

| Warranty                         |                                     |
|----------------------------------|-------------------------------------|
| Standard Warranty                | 2 Year standard Warranty            |
| Warranty Options                 | Extension by 1 or 3 years available |
| Extended Warranty (Optional)     |                                     |
| Extended Warranty SKU for 1 year | KSV4-1002HV-W1                      |
| Extended Warranty SKU for 3 year | KSV4-1002HV-W3                      |

## Ordering Information

| Product Code | Description                                                      |
|--------------|------------------------------------------------------------------|
| KVS4-1002HV  | 2-Port SH Secure Pro DP/HDMI to HDMI KVM w/audio, NO CAC, PP 4.0 |

## Product Includes:

- (1) Secure KVM Switch
- (1) 12 VDC Wallmount Supply (ICP36-120-3000) with US, EU, UK, and AU adapter clips
- (1) Set of 4 rubber feet (already be attached)
- (1) Quick Start Guide

Accessories

| Product Code | Description                              |
|--------------|------------------------------------------|
| KVSC-4       | Secure KVM Analog Remote Controller      |
| KVSC-16      | Secure KVM Touchscreen Remote Controller |



Cable Options

| Product Code        | Description                                    |
|---------------------|------------------------------------------------|
| SKVMCBL-2DP-06TAA   | 6' KVM USB Dual DP Cable - Audio - TAA         |
| SKVMCBL-2DP-10TAA   | 10' KVM USB Dual DP Cable - Audio - TAA        |
| SKVMCBL-2DVI-06TAA  | 6' KVM USB DUALNK Dual DVI Cable – Audio - TAA |
| SKVMCBL-2HDMI-06TAA | 6' KVM USB Dual HDMI Cable - Audio - TAA       |
| SKVMCBL-2HDMI-10TAA | 10' KVM USB Dual HDMI Cable – Audio - TAA      |
| SKVMCBL-DP-06TAA    | 6' KVM USB DP Cable - Audio -TAA               |
| SKVMCBL-DP-10TAA    | 10' KVM USB DP Cable – Audio -TAA              |
| SKVMCBL-2DP-10      | 10' KVM USB DUAL DP Cable - Audio              |
| SKVMCBL-2HDMI-06    | 6' KVM USB Dual HDMI Cable - Audio             |
| SKVMCBL-DP-06       | 6' KVM USB DP Cable – Audio                    |
| SKVMCBL-DP-10       | 10' KVM USB DP Cable – Audio                   |

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