

NIAP4 Certified Secure 2-Port 4K DisplayPort® KVM Switch for High-Security, Multi-Domain Workstations

Introduction

The Black Box KVS4-1002V is a secure 2-port, single-head DisplayPort KVM switch that lets a single user control two computers while keeping them completely isolated from each other. Built for defense, intelligence, and other high-security environments, it is NIAP PP 4.0 certified and uses hardware-based separation to prevent cross-domain data leakage without sacrificing 4K Ultra-HD DisplayPort performance.

Applications

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

Product Images

Front

Rear

KVS4-1002V

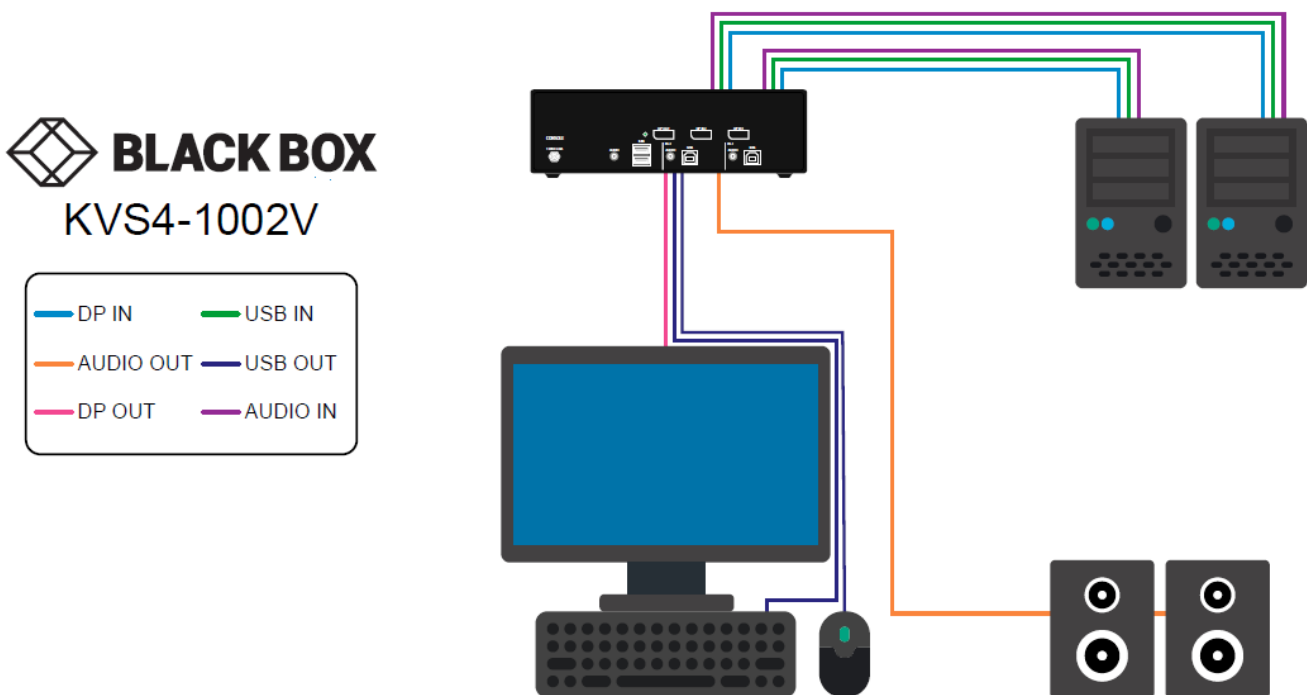


Key Features

- **NIAP 4.0 Certified Security**– Meets the highest common criteria protection profile for peripheral sharing switches required by government and defense agencies.
- **High-Resolution Display Performance**– Two Displayport® inputs feed a single displayport output, providing a single-head dp video path to the user monitor. the switch supports resolutions up to 4K ultra-HD (3840 × 2160 at 30 Hz), delivering crisp, detailed images for gis, surveillance, trading, and other graphics-intensive applications.
- **Secure USB keyboard/mouse switching**- Equipped with dedicated USB interfaces for keyboard and mouse, featuring emulation and strict data isolation to prevent peripheral-based attacks while maintaining seamless user control.
- **Balanced audio output and switching**– Dual 3.5 mm audio inputs and one output enable secure audio sharing between systems while maintaining clear sound and domain isolation.
- **Simple front-panel control with LED indication**– Front-panel buttons allow easy computer selection, while LED indicators show the active channel to reduce user errors across security levels.
- **High-efficiency external power** – Non-reprogrammable ROM, anti-tamper protections, and port isolation prevent data leakage, while NIAP Common Criteria PP 4.0 certification ensures secure peripheral sharing compliance.
- **Hardened Security Architecture** - Built with advanced tamper-resistant features including non-reprogrammable ROM, active anti-tamper switches, tamper-evident seals, and an internal battery for continuous protection against physical and cyber threats

Application Diagram

INSTALLATION DIAGRAM



Specifications

Video		KVS4-1002V
Input Interface		(2) DisplayPort®
Output Interface		(1) DisplayPort
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.
Data Rate		1.65 Gbps

USB		
Input Interface		(2) USB Type B
Output Interface		(2) USB 1.1 Type A for KM Devices
Compatability		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	KVS4-1002V-W1
Extended Warranty SKU for 3 year	KVS4-1002V-W1

Ordering Information

Product Code	Description
KVS4-1002V	2-Port SH Secure Pro DP 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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Black Box is a trusted IT solutions provider delivering cutting-edge technology products and world-class consulting services to businesses across the globe in every industry. The breadth of our global reach and depth of our expertise accelerate customer success by bringing people, ideas, and technology together to solve real-world business problems.

2701 North Dallas Parkway,
Suite #510, Plano TX 75093
Phone: +1 (877) 877-2269
Email: info@blackbox.com
Online: blackbox.com

To contact your local Black Box office,
please visit our [global contact page](#) ►.