

NIAP4 Certified Secure Defender – One way Data Protection for Mission-Critical Environments

Introduction

The Black Box KVS4-1002D is a secure 2-port, single-head DVI-I KVM switch that enables one user to control two computers while maintaining strict, hardware-enforced separation between them. Purpose-built for defense, intelligence, and other high-security environments, it is NIAP Protection Profile 4.0 certified to prevent unauthorized data transfer, eliminate cross-domain leakage, and protect sensitive information—while still delivering high-resolution DVI and 2K video (via adapter).

Applications

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

Product Images

Front

Rear

KVS4-1002D

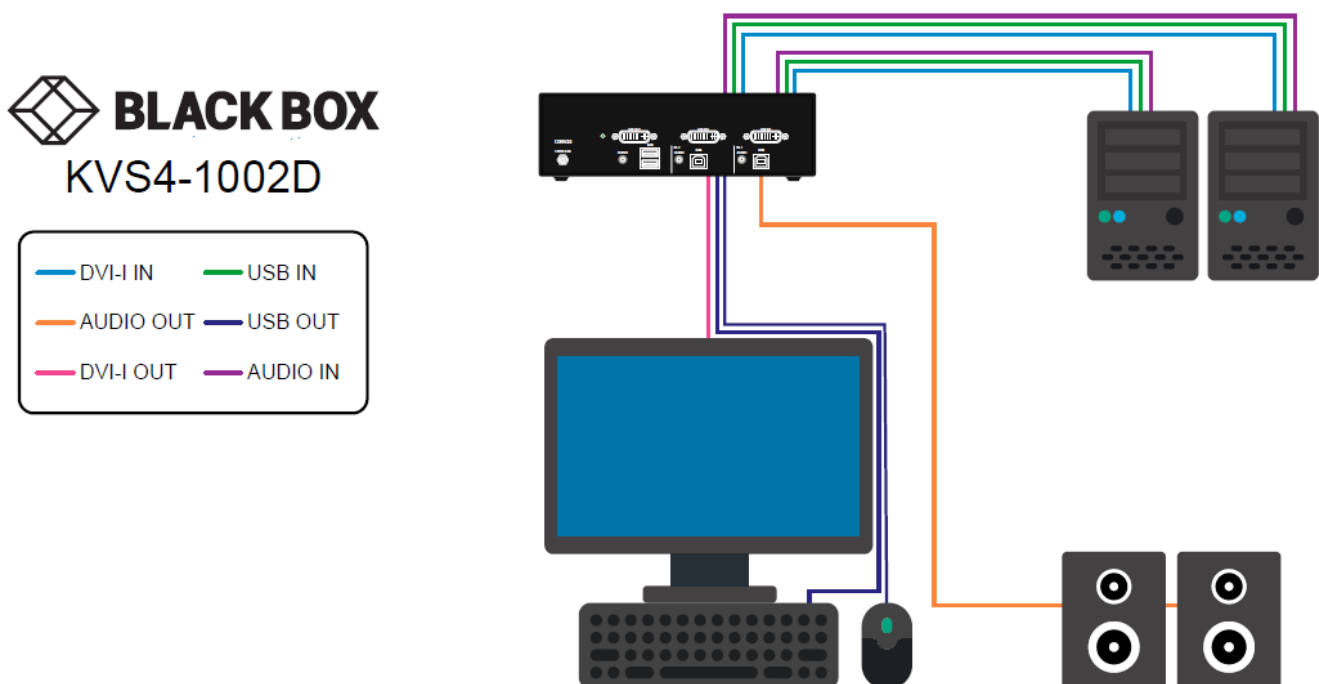


Key Features

- **NIAP PP 4.0 Certified** – Meets the highest common criteria protection profile for peripheral sharing switches required by government and defense agencies.
- **High-Resolution Display Performance** – A single head DVI-I interface provides high-resolution DVI video output up to 2560 × 1600 at 60 Hz, with stable signal performance over extended cable lengths. EDID emulation ensures seamless, interruption-free switching between connected systems.
- **Secure USB** – Dual USB Type-B ports connect each system, while USB Type-A ports support keyboard and mouse input. USB emulation ensures secure, uninterrupted switching with isolated HID control.
- **Balanced audio support and switching**– Dual 3.5 mm stereo audio inputs and a single 3.5 mm stereo output allow secure audio switching between the two computers. Balanced speaker output support delivers clear sound while maintaining separation so audio from one system cannot leak into another security domain.
- **Simple LED Indicators**– Front-panel tactile buttons with LED indicators provide clear visual status and intuitive channel switching for fast, error-free operation.
- **High-Efficiency Power** – Includes an external Level VI efficiency power supply with 100–240 VAC input, supporting energy-efficient and reliable operation across global deployments
- **Hardened Security**– Built with non-reprogrammable ROM, active anti-tamper switches, a long-life internal anti-tampering battery, tamper-evident seals, keyboard/ mouse/video emulation, and absolute port isolation, delivering robust protection against intrusion and cross-domain data leakage.

Application Diagram

INSTALLATION DIAGRAM



Specifications

Video		KVS4-1002D
Input Interface		(2) DVI-I 29-pin
Output Interface		(1) DVI-I 29-pin
Input Resolution		2560 x 1600 @ 60Hz;
Output Resolution		2560X1600 @ 60 Hz
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	KVS4-1002D-W1
Extended Warranty SKU for 3 year	KVS4-1002D-W3

Ordering Information

Product Code	Description
KVS4-1002D	2-Port SH Secure Pro DVI-I 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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About Black Box

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.

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