K502-SH

2-Port Secure KVM Switch with DisplayPort

Manage KVM operations on two computers with the latest in security features

FEATURES

- Validated to EAL 4+ security standards
- Complies with Common Criteria Protection Profile 2.1
- Manage two connected computers in isolation
- Advanced scaling enables no quality loss
- Unidirectional data paths
- Dedicated processors for emulation
- Includes DisplayPort security protocols
- USB port protection

APPLICATIONS

- Government Operations
- Defense Applications
- Security Control Rooms
- Corporate Communications and Server Operations
- Medical Campuses
- Airports

MEMBER OF
((HDCP))
GROUP

HD ready 1080p

Smart SECURITY LABS

A partnership between SmartAVI and High Sec Labs

THE ULTIMATE IN SECURE KVM

The K500-SH series are the only secure KVM switches that feature DisplayPort functionality, while delivering the most protections and separations between connected computers on the market. As a result, this KVM switch eliminates points of vulnerability that have plagued other KVM units.
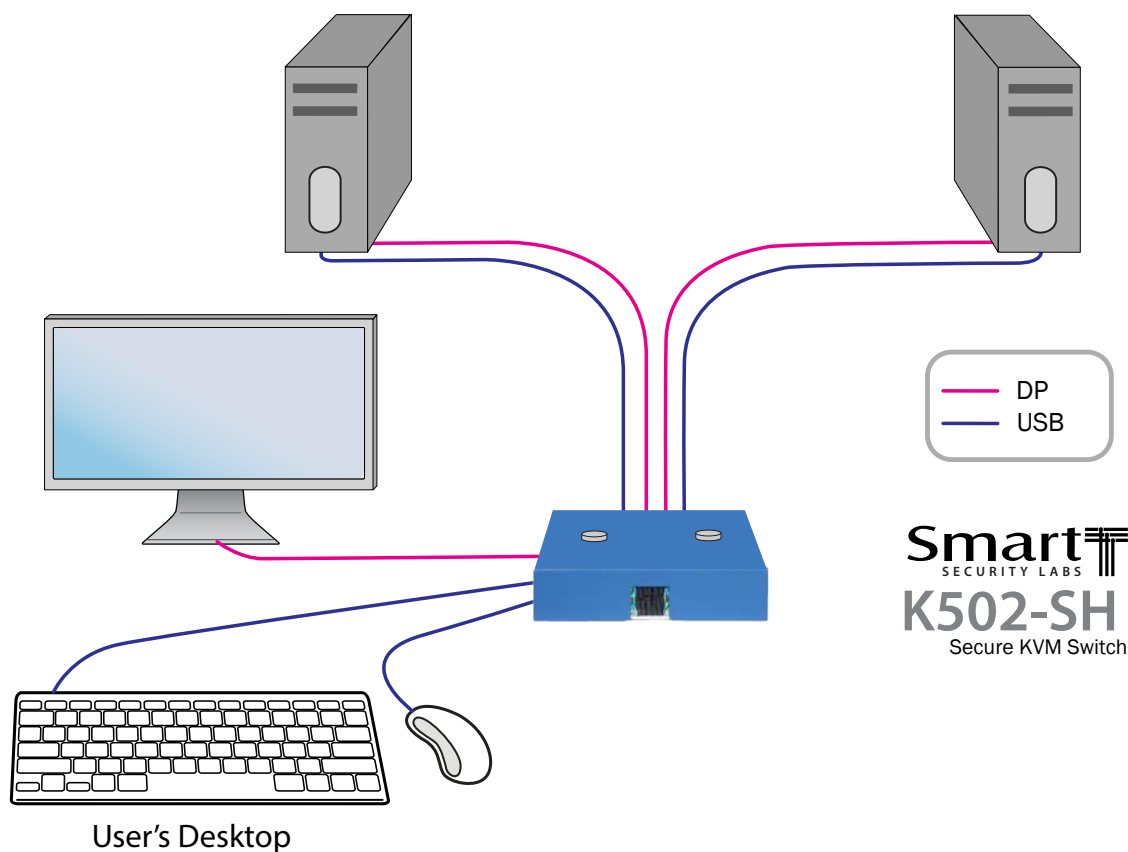
With two connected computers, the K502-SH offers impressive levels of connectivity even when linking computers that are on different levels of security clearance and Internet access. The K502-SH utilizes unidirectional optical data-diodes which insulate all connections from any possible points of data leakage among peripherals. Also included is an auxiliary channel firewall, providing further protection from internal security weaknesses. Every K502-SH secure KVM switch is rigorously and extensively tested to ensure it will remain stalwart against any known form of KVM security attacks. The unit has been certified to meet EAL 4+ standards to assure it provides the highest level of security possible.

DISPLAYPORT – THE LATEST IN KVM SECURITY

The K502-SH eliminates the documented vulnerabilities of other so-called secure KVM devices sold in the market today related to data leakages between connected computers with different security levels. This device is the only DisplayPort KVM on the market that is compatible with DisplayPort version 1.2.

This product offers the highest possible separation between two connected computers. The K502-SH uses unidirectional optical data diodes to prevent any potential leakage between the highly-isolated peripheral channels. This KVM can also be used to securely filter and lock USB ports preventing data export/import through mass-storage devices by hardware. Additionally the K500-SH features patented an auxillary channel firewall that protects internal security vulnerabilities.

APPLICATION DIAGRAM

DP
USB

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K502-SH
Secure KVM Switch

User's Desktop

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SPECIFICATIONS

K502-SH *Front*

K502-SH *Rear*

VIDEO	
Host Computer Input Ports	2 input ports, each including 1 DisplayPort Female connectors for video input, 1 USB Type-B connector for keyboard and mouse, 1 Audio input 3.5 mm stereo jack
Console Ports	1 DisplayPort Female Connector, 2 USB Type-A jacks for keyboard and mouse and 1 Audio output 3.5 mm stereo jack
Management	Channel select/status LEDs, channel select push-buttons, keyboard hotkeys (optional – can be disabled)
Video Modes Supported	All DisplayPort 1.2 resolutions up to 3840x2160 x30 bpp @60 Hz Supports 17.28 Gbits @ a 4-lane link
Security Functions	USB ports supporting only keyboard and mouse through host emulation and strong filtering Patented AUX channel firewall Optical Data Diode assures unidirectional flow from devices to computers Changing Firmware (on ROM) cannot cause leakage between channels or data export Isolated power supplies for each device emulator Battery powered anti-tampering system to disable product in case of mechanical intrusion Special holographic Temper Evident Labels
Power	DC input 12V/1A maximum Wall-mounted power supply included. Power input 90-240V AC
Peripheral Security	USB ports supporting only keyboard and mouse through host emulation Data-diode assures USB unidirectional flow from devices to host Firmware change can not cause leakage between channels or data export
Environmental	Temperature range: Operating - 0ºC to 40ºC (32ºF to 104ºF); Storage - -20ºC to 60ºC (-4ºF to 140ºF) Humidity: Operating - 20 to 80% non condensing; Storage – 10 to 90% non condensing Altitude: 0 to 10,000 ft
Regulatory Compliance	Safety: UL/cUL60950,EN60 950 EMI/EMC: FCC Class B, CE Mark, EN55022B, VCCI
Security Accreditations	Common Criteria EAL 4+ certified ALC_FLR.3 certified Designed for Common Criteria EAL-5 Complies with latest NIAP Peripheral Sharing Switch (PSS) For Human Interface Devices Ver 2.1
Physical Characteristics	Dimensions: 57(D) x 135 (W) x 33 (H) mm / 2.2 (D) x 5.4 (W) x 1.3 (H) in Device weight: 0.75 Kg (1.6 lbs) Shipping Weight: 0.9 Kg (2 lbs) without cables

ORDERING INFORMATION	
Part No.	Description
K502-SH	2-Port Secure KVM Switch with DisplayPort

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