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SECURE 4-PORT SINGLE-HEAD KVM SWITCHES

Securely share keyboard, video, mouse, audio and USB devices to simplify user experience when working with multiple computers.

NIAP PP PSS 3.0 CERTIFIED COMMON CRITERIA

Keyboard Video Mouse (KVM) switch offered by HSL allows securely sharing of keyboard, video, mouse, audio and USB peripherals between multiple computers while maintaining the highest isolation.

KVM HIGHLIGHTS

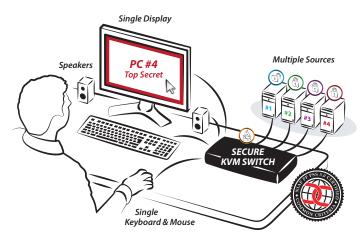
- NIAP Common Criteria PP3.0 Certification
 HSL KVMs qualify to the latest NIAP Common Criteria Protection
 Profile version 3.0 (PP3.0) certification for peripheral Sharing
 Switch (PSS) devices.
- Securely share peripherals across different security domains Securely share peripherals between computers that belong to different security classifications levels while keeping the highest possible data separation security.

Prevent information leaks

Obstacle threats derived from sharing and switching of vulnerable, untrusted or unauthorized peripheral devices. Block peripheral exploits, information leaks, eavesdropping, signal transmission, computer malware, hardware and firmware tampering by enforcing multilayered security mechanisms.

Filter USB Peripherals

Block unauthorized USB devices while allowing secure switching of smart card and biometric authentication devices between computers. Whitelist and blacklist specific USB devices based on VID/PID characteristics.



HSL Single-Head 4-Port Secure KVM Switch System Diagram

Obviate the need for purchasing and installing dedicated, per-computer peripheral sets.

SECURITY FEATURES

테른 HighSecLabs

• USB Security

- Block unauthorized USB devices.
- USB authentication devices are authorize by default.
- Whitelist and blacklist specific USB devices based on VID/PID characteristics.

Video Security

- Computer video input interfaces are isolated through the use of different electronic components, power and ground domains.
- The display is isolated by a dedicated, read-only, EDID emulation for each computer.
- Access to the monitor's Extended Display Identification Data (EDID) is blocked.
- Access to the Monitor Control Command Set (MCCS commands) is blocked.

Keyboard & Mouse Security

- The keyboard and mouse are isolated by a dedicated, USB device emulation for each computer.
- One-way, peripheral-to-computer data flow is enforced through unidirectional optical data diodes.
- Communication from computer-to-keyboard/mouse is blocked.
- Non HID (Human Interface Device) data transaction is blocked.

Audio Security

- Enforce computer-to-speaker, one-way flow of sound through unidirectional optical data diodes.
- Prevent eavesdropping and line-in re-tasking by blocking speaker-to-computer communication.

Hardware Anti-Tampering

- Any attempt to open the product enclosure will activate an antitamper system making the product inoperable.
- Blinking LEDs provide a clear indication of a tampering event.
- Special holographic tampering evident labels on the product's enclosure provide a clear visual indication if the product has been opened or compromised.

Firmware Anti-Tampering

- There is no access to the product's firmware or memory through any port.
- Firmware is permanently stored on a non-reprogrammable Read Only Memory (ROM) to prevent any modification.
- Firmware integrity is verified through a self-test procedure during power-up. Upon detection of a critical failure the device disables normal operation and provides the user with a clear visual indication of failure.



SK41D-3 / SK41DU-3
SK41H-3 / SK41HU-3
SK41P-3 / SK41PU-3
SK41PH-3

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1	SK41P	P-3/	SK41F	PL	1-3						

OPERATIONAL HIGHLIGHTS

• Freeze USB (XU-3) Assign the USB port to a specific computer while switching the keyboard, video, mouse and audio between other computers. Useful for various scenarios, for instance, when a USB smart card reader must remain mapped to a certain computer.

• Smoothly switch between computers (Virtual Display Technology)

Automatically switch control from one computer to another by dragging the mouse cursor over the computer's display border. Peripherals switch to the next computer without having to press any buttons once the mouse is passing the display border.

- View applications in Ultra High Definition (UHD) 4K video quality. Never compromise on video quality. Run graphic-intensive, ultrahigh definition applications on all single and dual monitor KVM models.
- Avoid typing mistakes

Since two-way communication is blocked by the KVM security, keyboard lock LEDs do not function. Help users avoid typing mistakes by visually indicating the status of keyboard locks (CAPS-LOCK | NUM LOCK | SCROLL LOCK) on the product's front facing panel.

Keep up with future requirements through interchangeable KVM / KM functionality

Adjust with versatile setup scenarios. The device can be configured in two modes, KVM and KM. In KVM mode (default) one display, keyboard and mouse set is shared between all computers. In KM mode each computer is connected to a separate display while keyboard and mouse are shared, thus allowing simultaneous work on multiple computers.

SPECIFICATION

Uisplays Iink/dual-link I X HUMI 1.4 I X HUMI 1.4 2.0 1.2 UHD 4K - 1.2	yPort											
Displays 1 x DVI-l, single- link/dual-link 1 x HDMI 1.4 1 x HDMI 1.4 1 x DP/HDMI 2.0 1 x Displa 1.2 UHD 4K - UHD 4K - Image: State Sta	yPort											
UISPIAYS IIINK/dual-link IX HUMI 1.4 IX HUMI 1.4 2.0 1.2 UHD 4K-	yPort											
	1 x DisplayPort 1.2											
Max Resolution (Input & Output) 30 Hz (via DVI to HDMI cable) UHD 4K UHD 4K Output OVI dual-link - 2560X1600 @ up to up to up to up to up to	Supporting UHD 4K resolutions up to 3840x2160 @ 30 Hz											
Mouse and Keyboard USB Type A, PS/2	A, PS/2											
Audio Jack 3.5 mm Jack	Jack											
fUSB Port USB Type A (U) USB Type A (U) USB Type A (U) N/A USB Type	A (U)											
COMPUTER PORTS												
Display Type1 x DVI-l, single- link/dual-link1 x HDMI 1.41 x DisplayPort 1.21 x DP/HDMI 2.01 x Display 1.2	yPort											
Mouse and Keyboard USB Type B	be B											
Audio Jack 3.5 mm Jack	Jack											
fUSB Ports USB Type B (U) USB Type B (U) USB Type B (U) N/A USB Type	B (U)											
PHYSICAL												
tensions 342 x 148 x 42 mm / 13.7 x 5.8 x 1.7 inches												
1.6 kg (3.2 lbs)												
POWER												
Power Requirements 35W Max												
AC Input 100 to 240V AC												
Power Type Internal	Internal											
ENVIRONMENTAL												
Operating Temperature 32° to 104° F (0° to 40° C)												
Storage Temperature -4° to 140° F (-20° to 60° C)												
Humidity 0-80% RH, non-condensing	0% RH, non-condensing											
SOFTWARE												
Supported OS Windows, Linux, Mac												
CERTIFICATION												
Security Certification NIAP Common Criteria PP3.0 for Peripheral Sharing Switch (PSS) devices												
Product Certification CE, RCM, FCC class B, VCCI, TUV US, TUV Canada												
GENERAL INFO												
Made In ISRAEL												
Product life-cycle 10 years												
Warranty 2 Years												

