


K524E - Front Panel

2/4-PORT DISPLAYPORT SECURE KVM SWITCH

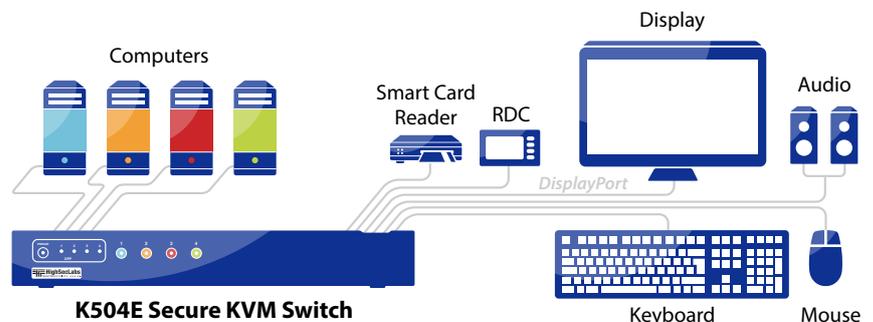
The World's First DisplayPort Secure KVM Product – Now with Dual-head

DisplayPort is the first display interface to rely on packetized data transmission, a form of digital communication found in other technologies like Ethernet, USB, and PCI Express. Although the transition to Display Port is good news for consumers it is very challenging in terms of security. This fast bidirectional protocol is capable of sending, receiving and leaking data packets from the video port as if it was a network port.

HSL's K5xx Series DisplayPort Secure KVM is the industry's first Secure KVM switch with DisplayPort. This product offers the highest possible separation between four connected computers. The K5xx Secure KVM designed to meet the requirements of organizations that are challenged by the need to provide secret or top-secret network access together with unclassified or internet

access. The K5xx series KVM uses uni-directional optical data-diodes to prevent any potential leakage between the highly-isolated peripheral channels. This KVM also features patented AUX channel firewall that designed to protect from DisplayPort internal security vulnerabilities. Product passed extensive security evaluation through all forms of known KVM attacks.

Dedicated peripheral port (DPP) allows for sharing of user authentication device such as CAC reader, smart card reader, or biometric readers (K504E/K524E only).



PRODUCT HIGHLIGHTS

- Highest security by design**
 Designed by an agency to support isolation between national security networks. Common Criteria EAL4+ certified.
- Future-proof - supports widest variety of peripherals and computers**
 Supports the newest DisplayPort 1.2 video formats from 800x600 to 3840x2160. Supports latest keyboards, mice and card readers. Support all Operating systems.
- Hardware Based peripheral protection/isolation**
 Absolutely no dependency on firmware or software. All firmware is in ROM (Read Only Memory). No keyboard buffering or memory.
- Unidirectional optical data diodes**
 assuring USB peripherals isolation. Data can flow from devices to host only. No reverse data flow possible by design.
- User authentication device port**
 Special USB port that supports CAC and other user authentication devices including biometric readers. User can decouple this port from KVM switching to remain authenticated on one channel in needed (K504E and K524E only).
- AUX Channel protection**
 Leakage prevention through patented AUX channel firewall technology. Signalling attacks prevented by design. EDID is fully functional.
- Peripherals security**
 Full USB devices filtering to assure support for keyboard and mouse only.
- Active anti tampering**
 Always-on active anti-tampering with 10 years battery. Special holographic tampering evident labels.



K504 - Back Panel



K524E - Back Panel



K502 - Back Panel



K504E - Back Panel

SPECIFICATION

Part Number	K502	K504	K504E	K524E
Numbers of Computers	2	4	4	4
Number of Displays	1	1	1	2
Resolution Supported	All DisplayPort 1.2 resolutions up to 3840x2160 by 30 bpp @ 60Hz. Supports 17.28 Gbps @ a 4-lane link.			
CONSOLE PORTS				
Console Mouse and Keyboard Ports	2* USB Type-A female connector or 2* PS/2 Mini-DIN 6-pin female connector (1 port for mouse and 1 port for keyboard)			
Console Display Ports	DisplayPort 1.1 and 1.2		2 x DisplayPort 1.1 and 1.2	
Console Audio Jack	3.5mm female			
Console DPP Input	N/A	N/A	USB Type A	USB Type A
COMPUTER PORTS				
Computer Display Ports	1 x DisplayPort 1.1 and 1.2	1 x DisplayPort 1.1 and 1.2	1 x DisplayPort 1.1 and 1.2	2 x DisplayPort 1.1 and 1.2
Computer Audio Jack	3.5mm female			
Computer Keyboard/Mouse Ports	USB Type B			
Computer CAC Ports	USB Type B			
PHYSICAL				
Dimensions	136 (W) x 61 (D) x 36 (H) mm / 5.4 (W) x 24.6 (D) x 1.46 (H) inch	320 (W) x 130 (D) x 52 (H) mm / 12.8 (W) x 5.2 (D) x 2 (H) inch	320 (W) x 130 (D) x 52 (H) mm / 12.8 (W) x 5.2 (D) x 2 (H) inch	320 (W) x 130 (D) x 65 (H) mm / 12.8 (W) x 5.2 (D) x 2.6 (H) inch
Weight	0.36 Kg. (0.79 lbs.)	1.47 Kg. (3.2 lbs.)	1.47 Kg. (3.2 lbs.)	1.47 Kg. (3.2 lbs.)
POWER				
Power Requirements	100–240VAC, 1A Max, 50/60Hz			
AC Input	100-240VAC			
Power Type	External			
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			
CERTIFICATION				
Security	Common Criteria EAL 4+ ALC_FLR.3			
Safety/EMC	EN 55022, EN 55024, EN 61000-3-2, FCC Part 15			
GENERAL INFORMATION				
Product Life-Cycle	10 Years			
Warranty	2 years			