HighSecLabs
Highest Security Solutions ● ● ● Ltd.

VALIDATED EAL 4+
Common Criteria

SECURE 8/16 PORT
DVI-I LARGE KVM SWITCHES

The HSL 8/16-Port Secure KVM Switches are especially designed for rack-mounting in data centers and server rooms. These KVMs are tailor-made for users in high-density environments.

The K208E, K248E, and K2016E KVM switches are especially designed to provide a secure solution for users in high-density environments involving isolated networks with different security levels. It is a perfect fit for government, military, financial and any other organization that handles confidential data.

Due to their size, these switches are designed for rack-mounting in server rooms or datacenters and include RDC (Remote Desktop Control) port that enables user-friendly remote control of the KVM switch.

The HSL Large KVM Switches are especially designed to provide the highest possible isolation between 8-16 connected computers. The DVI-I video ports support various video interfaces, from VGA to dual-link DVI and HDMI.

Models K208E and K2016E are single-head with each computer connected to a single display; while model K248E is dual-head and each computer may connect to up to two monitors and operate in a dual-display mode.

Switch security is further leveraged by the inclusion of a USB user authentication port (DPP) that enables

connecting a Biometric or Smart Card Reader, requiring the insertion of a physical authentication card or identification of a fingerprint to access the various sources.

The products are fully compatible with EAL4+ and NIAP security requirements.

K2016E Large Secure KVM Switch
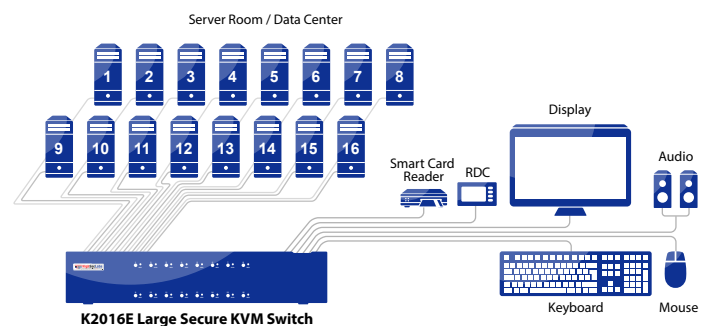
K208E Front Panel

K208E Back Panel

PRODUCT HIGHLIGHTS

- **Large KVM Switch for high density environments**
  Designed for rack-mounting in data centers and server rooms

- **Single/Dual Head DVI-I support**
  Supports 8-16 computers each connected to a single display (K208E & K2016E) or up to two monitors operating in dual display mode (K248E) . Can drive VGA, HDMI and dual-link DVI video

- **Biometric/Smart-Card reader support**
  Special secured port (DPP) for smart-card/biometric reader with patented Freeze function to support user authentication across multiple isolated networks

- **Future-proof**
  Supports widest range of video formats from VGA, to dual-link DVI and HDMI; supports latest keyboards, mice and all Operating Systems.
  VGA resolutions supported up to 2048 x 1536, DVI-D resolutions supported up to 2560 x 1600

- **Highest security by design**
  Common Criteria EAL 4+ approved, compatible with NIAP security requirements

- **Hardware-based peripherals isolation**
  No dependency on firmware or software; all firmware on 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

- **Display plug & play (DDC) protection**
  Leakage prevention through patented emulated technology; signaling attacks prevented by design; DDC/EDID fully functional

- **Peripherals Security**
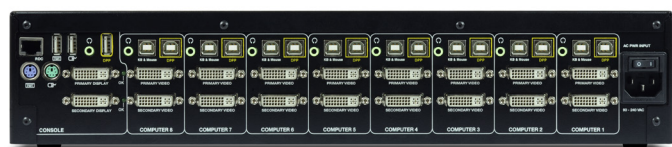 Full USB device filtering to assure support for keyboard and mouse only

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SPECIFICATION

PART NUMBER	K208E	K248E	K2016E
No. of Computers	8	8	16
Number Of Displays	1	2	1
CONSOLE PORTS (DEVICES)			
Resolution Supported	2560x1600x60HZ	2560x1600x60HZ	2560x1600x60HZ
Console Display Port	DVI-I Female	2 x DVI-I Female	DVI-I Female
Console Mouse and Keyboard Ports	USB Type A/PS2	USB Type A/PS2	USB Type A/PS2
Console DPP Port	USB Type A	USB Type A	USB Type A
Console Audio Jack	3.5 mm Jack	3.5 mm Jack	3.5 mm Jack
DCU Port	RJ45	RJ45	RJ45
PC PORT JACKS			
Computer/Keyboard Mouse Port (per Computer)	USB Type B	USB Type B	USB Type B
DPP Port (per Computer)	Yes	Yes	Yes
Computer Audio Jack (per Computer)	3.5 mm Jack	3.5 mm Jack	3.5 mm Jack
PHYSICAL			
Dimensions	441 (W) x 171 (D) x 46 (H) mm / 17.64 (W) x 7 (D) x 1.84 (H)	441(W) x 174 (D) x 92 (H) mm / 17.6 (W) x 6.96 (D) x 3.7 (H)	441(W) x 174 (D) x 92 (H) mm / 17.6 (W) x 6.96 (D) x 3.7 (H)
Weight	3.2 Kg. (7 lbs.)	4.2 Kg. (9.2 lbs.)	5.6 Kg. (12.32 lbs.)
POWER			
Power Requirements	AC input IEC-3 jack		
AC Input	Power input 90-240V AC		
Power Type	Internal Power Supply		
ENVIRONMENTAL			
Operating Temperature	0ºC to 40ºC (32ºF to 104ºF)		
Storage Temperature	-20ºC to 60ºC (-4ºF to 140ºF)		
Humidity	Operating - 20 to 80% non condensing; Storage – 10 to 90% non condensing		
CERTIFICATION			
Security Accreditation	EAL 4+, EMI/EMC: FCC Class B, CE Mark, EN55022B, VCCI, UL/cUL60950,EN60 950		
GENERAL INFORMATION			
Product life-cycle	10 Years		
Warranty	2 Years		

K248E Front Panel

K2016E Front Panel

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