



K248E

HighSecLabs Secure 8-Port, Dual Display DVI-I KVM Switch



The **K248E** is a secure 8-port, DVI-I dual-display KVM switch. It provides the highest possible isolation between eight connected computers each having two video output ports. The video ports support various video interfaces, from VGA to dual-link DVI and HDMI. Each computer may connect to up to two independent displays and operate in dual-display mode.

For enhanced security, a USB user authentication port (DPP) connects to a smart card or biometric reader. This requires the insertion of a physical authentication card or identification of a fingerprint to access the various computers/networks.

FEATURES

- **Dual-Display DVI-I Support** - Supports eight computers each connected to two displays. Can drive VGA, HDMI and dual-link DVI video.
- **Biometric/Smart-Card Reader Support** - A special secured port (DPP) for a smart-card/biometric reader with patented freeze function, supports user authentication across multiple isolated networks.
- **Future-Proof** - Supports the widest range of video formats from VGA, single-link to 2560x1600 dual-link DVI and HDMI, supports latest keyboards, mice and all operating systems.
- **Highest Security by Design** - Common Criteria EAL 4+ approved, compatible with NIAP security requirements.
- **Hardware-Based Peripheral Isolation** - No dependency on firmware or software, all firmware on ROM, no keyboard buffering or memory.
- **Unidirectional Optical Data Diodes** - Assures USB peripheral isolation, data flows 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.
- **Peripheral Security** - Full USB device filtering to assure support for keyboard and mouse only.
- **Active Anti Tampering System** - Always-on with 10 years battery, holographic tampering evident labels.

TECHNICAL SPECIFICATIONS

HOST INPUT PORTS:	8 DVI-I (F) connectors for primary video (VGA and HDMI supported), 8 DVI-I (F) connectors for secondary video (VGA and HDMI supported), 8 USB-B connector for keyboard and mouse, 8 3.5mm mini jack for unbalanced stereo audio, 8 USB-B dedicated peripheral ports (DPP).
CONSOLE PORTS:	2 DVI-I (F) connector, 2 USB-A connectors for keyboard and mouse, 1 USB-A dedicated peripheral port (DPP), 2 DIN-5 connectors for PS/2 keyboard and mouse, 1 3.5mm mini jack for unbalanced stereo audio.
CHANNEL SWITCHING:	Front panel buttons.
SUPPORTED VIDEO MODES:	Up to 2560 x 1600 @60z.
OPERATING TEMPERATURE:	0° to +40°C (32° to 104°F).
STORAGE TEMPERATURE:	-40° to +60°C (-40° to 140°F).
HUMIDITY:	10% to 90%, RHL non-condensing.
POWER:	90-240V AC.
SECURITY ACCREDITATIONS:	EAL 4+, EMI/EMC: FCC Class B, CE Mark, EN55022B, VCCI, UL/cUL60950, EN60 950.
INCLUDED ACCESSORIES:	Power cord.