KRAMER

K244E
HighSecLabs Secure 4−Port, Dual Display DVI−I KVM Switch

The K244E is a secure 4−port, DVI−I dual−display KVM switch. It provides the highest possible isolation between four 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. An RDC port enables user−friendly, comfortable remote control of the KVM switch.

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 four 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:	4 DVI−I (F) connectors for primary video (VGA and HDMI supported), 4 DVI−I (F) connectors for secondary video (VGA and HDMI supported), 4 USB−B connector for keyboard and mouse, 4 3.5mm mini jack for unbalanced stereo audio, 4 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, 1 RJ−45 remote desktop controller port (RDC).
CHANNEL SWITCHING:	Front panel buttons, keyboard shortcuts, remote desktop controller (RDC) (optional).
SUPPORTED VIDEO MODES:	DVI dual−link resolutions up to 2560 x 1600, single−link DVI resolutions up to 1920x1200, VGA resolutions up to 2048x1536. HDMI supported through adapters or cables.
POWER CONSUMPTION:	12V DC, 2.5A max.
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.
REGULATORY COMPLIANCE:	Safety: UL/cUL60950,EN60 950; EMI/EMC: FCC Class B, CE Mark, EN55022B, VCCI.
SECURITY ACCREDITATIONS:	Common Criteria EAL 4+ certified, complies with NIAP Peripheral Sharing Switch (PSS) For Human Interface Devices Ver 2.1.
DIMENSIONS:	32.0cm x 13.0cm x 6.5cm (12.6" x 5.1" x 2.6") W, D, H.
WEIGHT:	1.82kg (4lbs).
INCLUDED ACCESSORIES:	Power supply.