



K524E

HighSecLabs Secure 4-Port, Dual-Display, DisplayPort KVM Switch



The **K524E** is a secure 4-port DisplayPort dual-display KVM switch. It allows users to share peripherals – keyboard, mouse and monitor – between four different security-level networks/computers. It provides the highest possible isolation between four connected computers operating in a 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-Head DisplayPort Support** - Supports four computers each connected to two displays, supports DisplayPort 1.2 resolutions up to 3840×2160 30bpp @60Hz, 17.28Gbps on a 4-lane link.
- **Biometric/Smart-Card Reader Support** - A special secured port (DPP) for smart-card/biometric reader, with patented freeze function, supports user authentication across multiple isolated networks.
- **Future Proof** - Supports the latest keyboards, mice and all operating systems.
- **AUX Channel Protection** - Patented AUX channel firewall technology prevents leakage, signaling attacks prevented by design, fully functional EDID.
- **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.
- **Peripheral Security** - Full USB device filtering to assure support for keyboard and mouse only.
- **Active Anti Tampering System** - Always-on with 10-year battery, holographic tampering evident labels.

TECHNICAL SPECIFICATIONS

HOST INPUT PORTS:	4x2 DisplayPort connectors, 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 DisplayPort connectors, 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, remote desktop controller (RDC) (optional).
SUPPORTED VIDEO MODES:	All DisplayPort 1.2 resolutions up to 3840×2160 30bpp @60Hz, 17.28Gbps on a 4-lane link.
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:	EN 55022, EN 55024, EN 61000-3-2, FCC Part 15.
SECURITY ACCREDITATIONS:	Common Criteria EAL 4+ ALC_FLR.3
DIMENSIONS:	32.0cm x 13.0cm x 6.5cm (12.6" x 5.1" x 2.6") W, D, H.
WEIGHT:	1.47kg (3.2lbs).
INCLUDED ACCESSORIES:	Power supply.