# K504E-SH

4-Port Secure KVM Switch with DisplayPort





Manage KVM operations on four computers with the latest in security features and Remote Desktop Controller functionality

### **FEATURES**

- Validated to EAL 4+ security standards
- Complies with Common Criteria Protection
- Profile 2.1
- Manage four connected computers in isolation
- · Advanced scaling enables no quality loss
- Unidirectional data paths
- Dedicated processors for emulation
- Includes DisplayPort security protocols
- USB port protection
- Remote Desktop Controller
- CAC Port

### **APPLICATIONS**

- Government Operations
- Defense Applications
- Security Control Rooms
- Corporate Communications and Server Operations
- Medical Campuses
- Airports





### THE ULTIMATE IN SECURE KVM

The K500 series are the only secure KVM switches available today that features DisplayPort functionality, which delivers the most protections and separations between connected computers on the market. By using an ultra-secure form of packetized data transmission, a technology found in Ethernet, USB and PCI applications, this KVM switch eliminates points of vulnerability that have plagued other KVM units.

With four connected computers, the K504E offers impressive levels of seamless communications even when connecting computers that are on different levels of security clearance and Internet access. The K504E utilizes unidirectional optical data-diodes which insulates all connections from any possible points of data leakage among peripherals. Also included is an auxiliary channel firewall, providing further protection from internal security weaknesses. Every K504E secure KVM switch is rigorously and extensively tested to ensure it will remain stalwart against any known form of KVM security attacks. The unit has been certified to meet EAL 4+ standards to assure it provides the highest level of security possible.

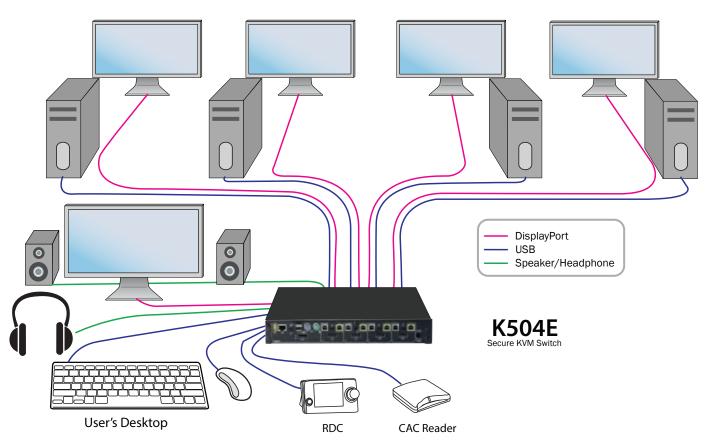
The K504E is an essential tool for users challenged by frequent switching between isolated networks. This product resolves challenges of virtualization while adding additional security protections. The RDC (Remote Desktop Controller) port enables simple interface with the RDC controller. Using the K504E with RDC, users can control and monitor KVM functions remotely and securely.

### **DISPLAYPORT – THE LATEST IN KVM SECURITY**

The K504E eliminates the documented vulnerabilities of other so-called secure KVM devices sold in the market today related to data leakages between connected computers with different security levels. The K500 Series are the only secure DisplayPort KVM devices on the market that are compatible with DisplayPort version 1.2.

This product offers the highest possible separation between four connected computers. The K504E uses unidirectional optical data diodes to prevent any potential leakage between the highly-isolated peripheral channels. This KVM can also be used to securely filter and lock USB ports preventing data export / import through mass-storage devices by hardware. The K504E also features patented auxillary channel firewall that designed to protect from DisplayPort internal security vulnerabilities.

## APPLICATION DIAGRAM



# **SPECIFICATIONS**



K504E-SH Front



K504E-SH Rear

| VIDEO                     |   |   |  |
|---------------------------|---|---|--|
| Host Computer Input Ports | 4 input ports, each including 1 DisplayPort Female connectors for video input, 1 USB Type-B connector for keyboard and mouse, 1 USB Type-B connector for user authentication device, 1 Audio input 3.5 mm stereo jack   |   |  |
| Console Ports             | 1 DisplayPort Female Connector, 2 USB Type-A jacks for keyboard and mouse, 1 USB Type-A jack for user authentication device, 1 RS-45 jack for remote desktop controller and 1 Audio output 3.5 mm stereo jack   |   |  |
| Management Channel select |   | status LEDs, channel select push-buttons, keyboard hotkeys (optional – can be disabled) |  |
| Video Modes Supported     | All DisplayPort 1.2 resolutions up to 3840x2160 x30 bpp @60 Hz Supports 17.28 Gbits @ a 4-lane link   |   |  |
| Security Functions        | USB ports supporting only keyboard and mouse through host emulation and strong filtering Patented AUX channel firewall Optical Data Diode assures unidirectional flow from devices to computers Changing Firmware (on ROM) cannot cause leakage between channels or data export Isolated power supplies for each device emulator Battery powered anti-tampering system to disable product in case of mechanical intrusion Special holographic Temper Evident Labels |   |  |
| Power                     | DC input 12V/1A maximum Wall-mounted power supply included. Power input 90-240V AC  |   |  |
| Peripheral Security       | USB ports supporting only keyboard and mouse through host emulation Data-diode assures USB unidirectional flow from devices to host Firmware change can not cause leakage between channels or data export   |   |  |
| Environmental             | Temperature range: Operating - 0°C to 40°C (32°F to 104°F); Storage20°C to 60°C (-4°F to 140°F) Humidity: Operating - 20 to 80% non condensing; Storage – 10 to 90% non condensing Altitude: 0 to 10,000 ft   |   |  |
| Regulatory Compliance     | Safety: UL/cUL60950,EN60 950<br>EMI/EMC: FCC Class B, CE Mark, EN55022B, VCCI   |   |  |
| Security Accreditations   | Common Criteria EAL 4+ certified ALC_FLR.3 certified Designed for Common Criteria EAL-5 Complies with latest NIAP Peripheral Sharing Switch (PSS) For Human Interface Devices Ver 2.1   |   |  |
| Physical Characteristics  | Dimensions: 32(D) x 135 (W) x 33 (H) mm / 12.6 (D) x 5.3 (W) x 2.0 (H) in Device weight: 1.5 Kg (3.3 lbs) Shipping Weight: 1.8 Kg (4 lbs) without cables  |   |  |
| ORDERING INFORMATION      |   |   |  |
| Part No.                  |   | Description   |  |
| K504E-SH                  |   | 4-Port Secure KVM Switch with DisplayPort   |  |

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|----------|---|
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