# Sekuryx™

# CK4-PM102C

## Secure 2-Port, Single-Head DP MST KVM Switch with Dedicated CAC Port and 4K HD Support



CK4-PM102C

2-PORT SH DPMST W/AUDIO and CAC

## KEYBOARD AND MOUSE EMULATION

The Secure KVM emulates (simulates) the presence of a keyboard and mouse for every attached computer through a USB cable. Both selected and non-selected computers maintain a constant connection with the unit's keyboard and mouse emulation controllers, allowing for ultra-fast switching and restricting discovery of newly connected peripherals during switching operations. Emulation of keyboard and mouse also prevents direct connection between the peripherals and the connected computers, shielding systems from potential vulnerabilities.

## CAC SUPPORT

Many secure KVM switches support CAC devices, such as smart-card and biometric readers, bolstering security when using the device. However, Sekuryx takes CAC security even further, allowing users to assign specific peripheral devices to the KVM's CAC port. Once a peripheral device has been registered by an authenticated admin, users can then switch the connection between that device and the PC's along with KVM switching.

## SECURE VIDEO/AUX EMULATION

The KVM can simulate a generic EDID, allowing it to operate most of the connected DP and HDMI monitors in the market. Both selected and nonselected computers maintain a constant connection with the unit's video and EDID emulation controllers, allowing for ultra-fast switching and restricting discovery of newly connected monitors during switching operations. The unit prevents unwanted and unsecure data from getting transmitted between the computers and the display.
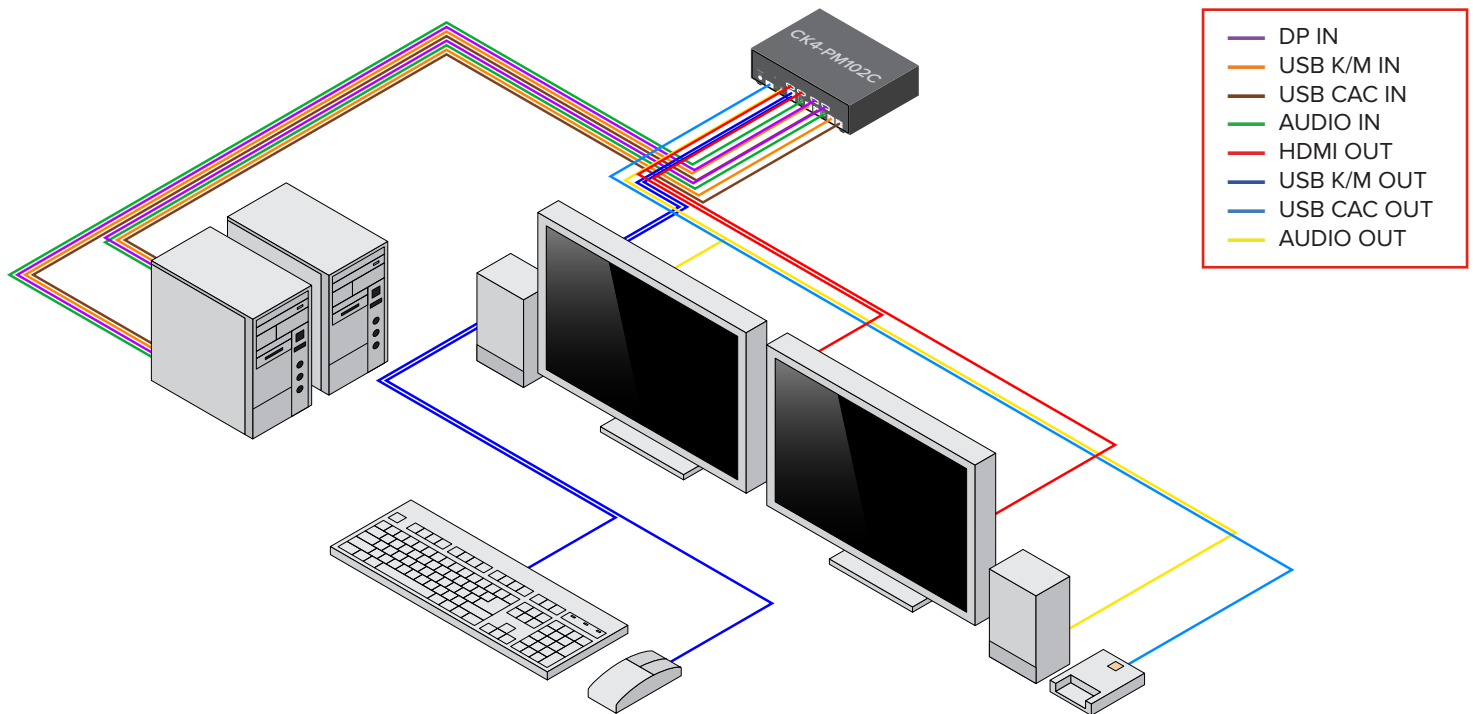
## KEY FEATURES

- Supports Windows, Mac and Linux OS
- Single-head DisplayPort to Dual-head HDMI video interface
- 4K HD resolution - supports up to 3840 x 2160 @ 30Hz
- DisplayPort1.2a dual mode receiver
- HDMI/DVI operation up to 320MHz
- Max video input resolution 4K2K@60Hz
- Multi-Stream Transport supports up to 2 streams
- Supports RGB or YCbCr
- Advanced configurable CAC port
- External power supply - Level VI efficiency
- Computer interface isolation while powered or unpowered
- Ensures all user data is completely isolated and no data is ever stored
- No external interfaces can be used, only keyboard, mouse and CAC devices accepted
- Secure channel switching with leak prevention, no hotkeys
- Front panel tactile buttons for secure channel switching and LED channel indicators
- Peripheral and authentication ports isolation for secure usage
- Tamper evident label and anti-tampering technology
- No wireless devices connected
- Ensures only trusted admin gains access

## APPLICATIONS

- Government Operations
- Defense Applications
- Secure Control Rooms
- Corporate Communications
- Server Operations
- Educational Administrations
- Medical Facilities
- Banking Network
- Insurance Data Centers
- Transit Management
- Industrial Operation
- Intelligence Communications





CERTIFIED ISO 9001:2015 COMPANY

NIAP®

DESIGNED AND MADE IN THE USA

# INSTALLATION DIAGRAM



**Legend:**
- DP IN
- USB K/M IN
- USB CAC IN
- AUDIO IN
- HDMI OUT
- USB K/M OUT
- USB CAC OUT
- AUDIO OUT

# TECHNICAL SPECIFICATIONS

| VIDEO | |
|---|---|
| Format | DisplayPort, HDMI |
| Max. Pixel Clock | 248 MHz |
| Input Interface | (2) DisplayPort 20-pin |
| Output Interface | (2) HDMI 19-pin |
| Resolution | Up to 4K (3840x2160 @30Hz) |
| DDC | 5 volts p-p (TTL) |
| Input Equalization | Automatic |
| Input Cable Length | Up to 20 ft. |
| Output Cable Length | Up to 20 ft. |
| Data Rate | 1.65 Gbps |
| **USB** | |
| Input Interface | (4) USB Type B |
| Output Interface | (2) USB 1.1 Type A for KM Devices |
| Emulation | USB 1.1 and USB 2.0 Compatible |
| CAC | Configurable USB 2.0 Port |

| AUDIO | |
|---|---|
| Audio Input | (2) 3.5mm stereo audio |
| Audio Output | (1) 3.5mm stereo audio |
| **CONTROL** | |
| Front Panel | Front panel SELECT buttons |
| **OTHER** | |
| Power | External 100-240 VAC/ 12VDC3A @ 36W |
| Dimensions | 8.8" W x 2.63" H x 6.69" D |
| Weight | 3.85 lbs |
| Approvals | NIAP PP 4.0, UL, CE, ROHS Compliant |
| Operating Temp. | +32 to +104°F (0 to +40°C) |
| Storage Temp. | -4 to 140°F (-20 to +60°C) |
| Humidity | Up to 80% (no condensation) |

| ORDERING INFORMATION | |
|---|---|
| **Part No.** | **Description** |
| CK4-PM102C | 2-Port SH Secure Pro DP MST KVM w/audio and CAC, PP 4.0 |