ADDERView®
AVS 4128

Flexi-Switch

Secure KVM flexi-switch for sharing single or dual head 4K video, USB keyboard and mouse, plus analog audio between eight computers spanning multiple security classification levels.

SECURE

Features

Video performance
Up to UHD 4K video resolution at 60 fps for graphics intensive applications requiring very high quality.

Automatic switching
Switch channels (KVM plus audio) simply by moving the mouse across the screen border, whilst pressing the Ctrl key. This is a security feature to prevent accidental switching.

Flexible connections
The user can switch between a combination of single and dual head computers. Two single head computers can be controlled concurrently.

Audio hold
Assign the audio port to a specific computer while switching the KVM to other computers. Useful when a user needs to listen to audio from one computer, whilst working on another.

Channel identification
Reduce the chances of operator error by displaying a name for each channel and its security classification on the E-paper display. The color of the channel LED may also be configured to reflect the security classification.

Uni-directional keyboard and mouse data paths
Uni-directional optical diodes ensure data paths travel in only one direction, thus preventing data leakage through shared peripherals. A uni-directional structure also protects against timing analysis or forced malfunction attacks and prevents computers influencing the operation of any common circuitry.

Uni-directional video
Computer video input interfaces are isolated through use of separate electronic components and power. The display is isolated by a dedicated, read-only, EDID (Extended Display Identification Data) emulation for each computer. Access to the monitor's EDID and MCCS (Monitor Control Command Set) commands are blocked.

Uni-directional audio
Enforces computer-to-speaker, one-way flow of sound through uni-directional optical data diodes. Prevents eavesdropping and line-in re-tasking by blocking speaker-to-computer communication.

Product In Brief

The ADDERView Secure Flexi-Switch has been designed for applications that require more functionality than a standard 4-port KVM switch can provide. The Secure Flexi-Switch has eight input computer ports which can be connected to a combination of single and dual-head computers; giving the user real-time control of up to two computers simultaneously.

The ADDERView Secure range is designed to prevent sensitive data leakage and data storage in the device. Using features such as uni-directional data paths, anti-tamper labels and non-reprogrammable firmware, the secure switches actively combat a range of potential threats.

NIAP PP 4.0 Certified

Assembled in the USA

TAA Compliant

ADDERView Secure Switch

Color Coded Security

ADDER
THE IP KVM PEOPLE

DATA SHEET

•••
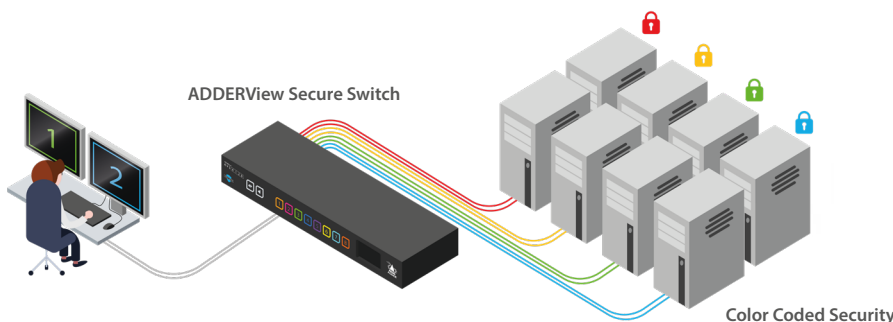
Restricted USB function
The USB ports will only accept HID (Human Interface Devices), such as keyboards and mice. Other devices, such as USB storage drives, are actively prohibited.

No shared RAM between channels
The keyboard and mouse processor is powered down and reset at each switchover to thwart shared RAM leakages. All data buffers are actively cleared once they have been used.

Non-reprogrammable firmware
There is no access to the product's firmware or memory through any port. Firmware is permanently stored in non-reprogrammable Read Only Memory (ROM) to prevent modification. Firmware integrity is verified through a self-test procedure during power up. Detection of a critical failure disables the device and provides a clear visual indication to the user.

Hardware anti-tampering
Holographic anti-tampering labels protect the product's enclosure, providing a clear visual indication if it has been opened or compromised.

Technical Specifications

Video resolutions
The system supports UHD 4K resolutions to a maximum of 3840 x 2160 @ 60Hz.

Software compatibility
All commonly known software and operating systems including Windows®, Linux® and Mac host computer OS's USB HID.

Console connections
• 2x Dual port for DP/HDMI, USB type A, Audio 3.5mm
• RJ12 for remote control

Computer connections
• 8x dual ports for DP/HDMI, USB type B, Audio 3.5mm

Front Panel
• Monitor selection button
• Audio hold button and status LED
• 8x Channel selection button and status LED
• 212x104 E-paper for status display

Physical design
• Robust metal construction
• 17.48"/444mm(w),1.73"/44mm(h), 6.10"/155mm(d)
• 2.6kg/5.73lbs

Power supply
• 100-240V AC, 47/63Hz
• 12V DC 30W output from power supply unit

Environmental
• Operating temp: 32ºF to 104ºF (0ºC to 40ºC)
• Storage temp: -4ºF to 140ºF (-20ºC to 60ºC)
• Humdity: 0-80% RH, non-condensing

Approvals
• CE, FCC class A, TUV US & Canada, UKCA
• NIAP PP 4.0 Compliant Design for Peripheral Sharing Devices (PSD)

ADDERView AVS 4128 - Rear View

Ordering Information

AVS-4128: ADDERView Secure 8-port flexi-switch

What's in the Box?

1x 8-port switch

1x power supply unit with country specific mains cable

1x quick start guide

Accessories (Sold Separately)

AS-4CR: ADDER Secure 4-port card reader

RMK14: Rackmount kit

VSCD10a: DP video cable. 2m

VSCD15: HDMI video cable. 2m

VSC22: Audio cable. 2m

VSC24: USB cable type A to type B. 2m

About Adder

Adder is a leading developer and thought leader in connectivity solutions. Adder's advanced range of KVM switches, extenders and IP solutions enable the control of local, remote and global IT systems across the enterprise. The company distributes its products in more than 60 countries through a network of distributors, resellers and OEMs.

Adder has offices in China, Germany, Japan, the Netherlands, Singapore, Spain, France, Sweden, United Kingdom and United States.

To find out more, visit: adder.com

ADDER®
THE IP KVM PEOPLE | DATA SHEET