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.

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 that can be connected to a combination of single and dual-head computers; giving the user real-time control of up to two computers simultaneously.

ADDERView® Secure AVS 4128 Flexi-Switch

Video Performance

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

Uni-Directional Data Paths

Uni-directional optical diodes ensure data paths travel in only one direction to prevent 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.

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.

Flexible Connections

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

Non-Reprogrammable Firmware

Firmware is permanently stored in non-reprogrammable Read Only Memory (ROM) to prevent modification, and cannot be accessed by any port. A self-test at power-up verifies its integrity, and if a critical failure is detected, the device is disabled and provides a clear visual indication to the user.

Uni-Directional Video and Audio

Computer input interfaces are isolated through use of separate uni-directional optical data diodes 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 commands are blocked.

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.

Hardware Anti-Tampering

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

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, while working on another.

Automatic Switching (Config Option)

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

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.

Industry Recognized

NIAP PP 4.0 Certified, TAA Compliant, Assembled in the USA

Video Information (1 Screen)	
Maximum Resolution (1 Screen)	3840 x 2160
Frame Rate (1 Screen)	60
Color Depth (1 Screen)	8 bpc

Video Information (2 Screen)	
Maximum Resolution (2 Screens)	3840 x 2160
Frame Rate (2 Screens)	60
Color Depth (2 Screen)	8 bpc

Computer Connections	
USB B	8x 2.0, HID Emulation
Dual Port (DP+HDMI)	8x 1.2 (dual mode)

Console Connections	
USB A	2x 2.0, HID Emulation
Dual Port (DP & HDMI)	2x 1.2 (dual mode)

Serial Ports	
Serial Connection	1x RS232
Serial Connection Type (console)	RJ12 (6p6c)

Audio Connections	
Audio Type	Analog
Channels	2x
Audio Direction	Output only
Audio In Port	1x 3.5mm jack
Audio Out Port	1x 3.5mm jack

Network Support	
10/100 Support	No

Environmental	
Operating Temperature Range °C / °F	0 to 40 °C / 32 to 104 °F
Storage Temperature °C / °F Range	-20 to 60 °C / -4 to 140 °F
Operating Humidity (%)	0% - 80% (non-condensing)
Storage Humidity (%)	0% - 80% (non-condensing)
Temperature Regulation	Fanless

Power Source	
12V 3-pin	1x
Input Power Supply	PSU 2.5A
Power Additional Information	100-240V AC, 47/63Hz. 12V DC 30W output from power supply unit

Power Consumption	
Maximum Power (Watts)	30
Maximum Power (Current)	2.5

Physical Design	
Construction Material	Robust metal construction
Width (mm) / (in.)	444 / 17.5
Height (mm) / (in.)	44 / 1.7
Depth (mm) / (in.)	155 / 6.1
Weight (kg) / (lb)	2.6 / 5.7

Front Panel Features	
Multi color status LEDs	8x
E-Paper Display	1x
Audio Hold	1x

Compatibility	
OS Compatibility	Windows, Linux, macOS, All known operating systems

Approvals and Standards	
Approvals	CE, cTUVus, FCC, UKCA
Standards	EN/IEC 62368-1, EN55032 /CISPR 32, EN55035/CISPR 35, EN63000, FCC pt15B
Other	EU REACH, NIAP PP 4.0, UK REACH

What's in the Box?
1x 8-port switch
1x Power supply unit with universal mains cable
1x Quick start guide

Ordering Information	
AVS-4128	ADDERView Secure 8-port flexi-switch

Related Accessories (Sold Separately)
ADDER® Secure Card Reader
ADDER® Rackmount Kit RMK14

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