

SECURE

KVM ISOLATORS

HSL's Secure NIAP PP4.0 Certified Isolators

ensure that computer video and USB data flow are filtered and flow unidirectionally. This prevents shared peripheral vulnerabilities from compromising network security.



ACCESSORIES

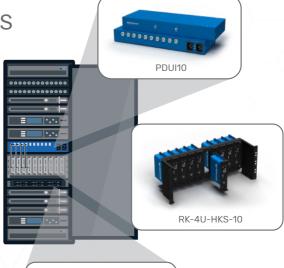
RACK MOUNT KITS

AND PDUI

The **RK-4U-HKS-10** supports mounting up to 10 HSL Isolators in a 19" 4U rack space.

The **PDUI** is a 10/12/24 output power supply that powers 12V/48V DC powered devices such as HSL's Isolators. The PDUI is the ideal solution for the limited space and lack of power outlets common to dense installations. No need for multiple 12V/48V DC power adapters.

The **1U 6 Isolators kit** (RK-1U6-FV/I11H/PH-M) includes HSL's PDUI12, power distribution unit and 6 Isolators installed in a specially designed chassis for mounting in a network cabinet.





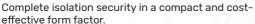
SECURE VIDEO AND KVM ISOLATOR MODELS



HSL has a broad portfolio of isolation products suitable for multiple deployment scenarios, ranging from meeting rooms and control rooms to operational technology.

	MODEL	FV11PH-M	FV11H-M	FI11PH-M	FI11H-M		
COMPUTER CONSOLE	Displays	1x DP/HDMI	1x HDMI	1 x DP/HDMI	1x HDMI		
	Max Resolution (Input & Output)	3840x2160 @ 30 Hz	3840x2160 @ 30 Hz	3840x2160 @ 30 Hz	3840x2160 @ 30 Hz		
	Mouse and Keyboard	N/A	N/A	USB Type A	USB Type A		
	Display Type	1x DP/HDMI	1 x HDMI 1.4	1x DP/HDMI	1 x HDMI 1.4		
СОМР	Mouse and Keyboard	N/A	N/A	USB Type B	USB Type B		
	Power Requirements	DC input 12V/1.5A Maximum					
PWR	AC Input	Wall-mounted power supply included. Power input 90 to 240V AC					
	Power Type	External Power Supply					
PHYS	Dimensions	145 x 105 x 28 mm / 5.8 x 4.2 x 1.1 inches					
Ŧ	Weight	0.3 kg (0.64 lbs)					

SECURE MINI-VIDEO ISOLATOR MODELS





	MODEL	FV11HH-MM	FV11PH-MM	FV11HP-MM	FV11PP-MM		
픻	Displays	1x HDMI	1x HDMI	1x DP	1xDP		
CONSOLE	Max Resolution (Input & Output)	1920X1080 @ 60Hz / 1920X1200 @ 60Hz / 3840X2160 @ 30Hz / 3440X1440 @ 30Hz (Selected by DIP Switch)					
СОМР	Display Type	1× HDMI	1x DP	1×HDMI	1 x DP		
PWR	Power Requirements	Powered by HDMI or Display Port					
PHYS	Dimensions 22 (W) x 180 (D) x 14 (H) mm / 0.86 (W) x 7.0 (D) x 0.55 (H)						
Į₹	Weight	250 gr / 0.55 lb					

SECURE GALVANIC ISOLATOR MODELS

HSL's Video and KVM isolators use broadband high-pass filters to provide complete galvanic isolation of

DC and ground currents between two pieces of equipment, while permitting the full bandwidth of HDMI 1.4 and USB 2.0 signals to pass, thus avoiding problems of signal distortion and operator shocks caused by a voltage difference.

	MODEL	FV11H-MG	FV11H-MGH	FI11H-MG	FI11H-MGH		
	Displays	HDMI	HDMI	HDMI	HDMI		
	Max Resolution (Input & Output)	3840x2160 @ 30 Hz	3840x2160 @ 30 Hz	3840x2160 @ 30 Hz	3840x2160 @ 30 Hz		
_	Mouse and Keyboard	N/A	N/A	USB Type A	USB Type A		
	Display Type	1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4		
COMP	Mouse and Keyboard	N/A	N/A	USB Type B	USB Type B		
	Power Requirements	DC input 12V/2.5A Maximum					
PWR	Power Type	External Power Supply	Medical Grade External PS	External Power Supply	Medical Grade External PS		
	Galvanic Isolation	3KV	3KV	3KV	3KV		
PHYS	Dimensions	145 x 105 x 28 mm / 5.8 x 4.2 x 1.1 inches					
Ŧ	Weight	0.3 kg (0.64 lbs)					
	Safety Certification	N/A	IEC60601-1	N/A	IEC60601-1		
ਹ	EMC Certification	N/A	IEC 60601-1-2	N/A	IEC 60601-1-2		

SECURE CRITICAL OT

WITH RS-232 ISOLATORS

The secure RS-232 Isolator enforces one-way data flow from the serial ports of two computer systems.

The RS-232 Isolator ensures secure control of different devices of different classification levels from a central control system. The configurable secure RS-232 Isolator supports the creation of rules to filter the information passed and to limit the type of events and commands that can pass through the isolator.



FI11H-MGH

KVM & VIDEO ISOLATORS HIGHLIGHTS

- The ultimate solution for securing and presenting sources of different classification level on the same display.
- Supports isolation of large KVM matrix switches and conference room equipment
- Display Plug & Play (EDID)
 Leakage prevention through patented emulated technology.
 Signalling attacks prevented by design.
- Hardware based HID peripherals protection/isolation on models with KM support: F111D-M, F111PH-M, F111H-M
- Tamper Evident Label
 Special holographic tampering
 evident labels on the product's
 enclosure provide a clear visual
 indication if the product has
 been opened or compromised.

- New type of connector DP/
 HDMI combined connector on models FV11PH-M,
 FI11PH-M: Connect either type of cable DisplayPort or HDMI
- Variety of supported video Input/output interfaces: DVI, HDMI, and DP/HDMI combined connector
- All firmware is in ROM (Read Only Memory).
- Unidirectional optical data diodes (KVM units only) -Assuring USB peripherals isolation.
- Data flows in one direction only. No reverse data flow possible by design.
- Compatible with NIAP PP4.0 for PSD.

INI-AIDE

- Highest security by design Designed to support isolation of large KVM matrix and conference from equipment.
- Hardware-based peripheral protection/isolation
 Absolutely no dependency on firmware or software.
- protection
 The fixed EDID module prevents
 any EDID negotiation. Leakage
 prevention through patented
 emulated technology. Signalling

All firmware is in ROM (Read Only Memory).

Tamper Evident Label
 Special holographic compering evident labels on the product's enclosure provide a clear visual indication if the product has been opened or compromised.



DEVELOPS HIGH-QUALITY, CYBER-DEFENCE SOLUTIONS IN THE FIELD OF NETWORK AND PERIPHERAL ISOLATION FOR PROTECTING NATIONAL ASSETS AND INFRASTRUCTURE.







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