

# SECURE KVM AND VIDEO EXTENDERS

Securely extend via copper or fiber keyboard, video, mouse.

HSL Secure, NIAP PP4.0 Compatible Extended Isolators enable secure unidirectional and filtered long-distance extension of computer video and keyboard/mouse signals, while preventing vulnerable peripherals from compromising network security.



## KVM EXTENDERS HIGHLIGHTS

### NIAP Common Criteria PP4.0 Compliant

HSL KVMs qualify to the latest NIAP Common Criteria Protection Profile version 4.0 (PP4.0) certification for Peripheral Sharing Device (PSD) devices.

### Extra Long Range

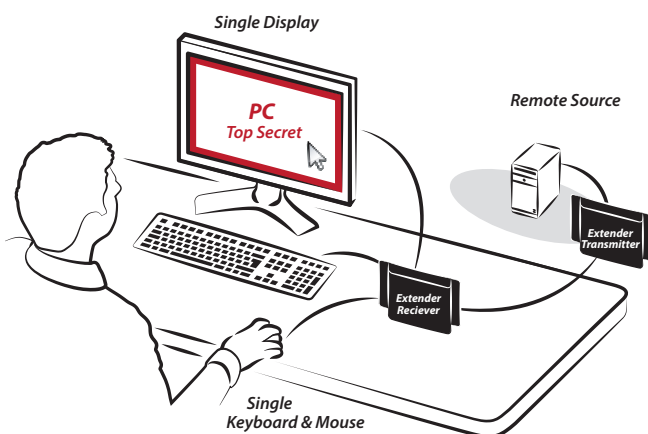
Using either Fiber (10KM) or Copper (100m) to connect between source and display.

### DP/HDMI Combined Connector

Allows connecting both type of cables – Display Port and HDMI including format conversion.

### POE Support

Power Extender Receiver via POE using 48V connected to TX unit.



## SECURITY FEATURES

### Video Security

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

### Keyboard & Mouse Security

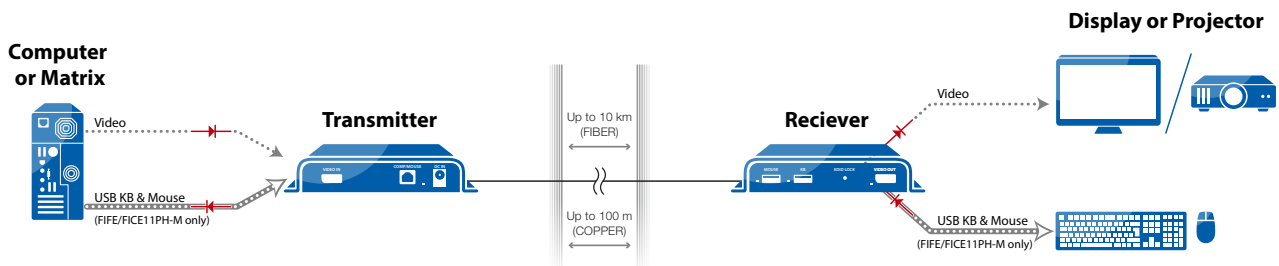
- The keyboard and mouse are isolated by a dedicated, USB device emulation for each computer.
- One-way, peripheral-to-computer data flow is enforced through Communication from computer-to-keyboard/mouse is blocked.
- Non-HID (Human Interface Device) data transaction is blocked.
- Special holographic tampering evident labels on the product's enclosure provide a clear visual indication if the product has been opened or compromised.



NIAP PP PSS 4.0  
COMPLIANT  
COMMON CRITERIA

## SPECIFICATION

PART NUMBER	FICE11PH-M	FVCE11PH-M	FIFE11PH-M	FVFE11PH-M
<b>No. of Sources</b>	1	1	1	1
<b>CONSOLE PORTS - RECEIVER</b>				
<b>Displays</b>	DP/HDMI	DP/HDMI	DP/HDMI	DP/HDMI
<b>Max Resolution (Input &amp; Output)</b>	Supporting UHD 4K resolutions up to 3840x2160 @ 30 HzUp to 100M*		Supporting UHD 4K resolutions up to 3840x2160 @ 30 Hz Up to 10K**	
<b>Mouse and Keyboard</b>	2 x USB Type A	-	2 x USB Type A	-
<b>Link Port</b>	RJ45	RJ45	10GBASE-LR SFP + 1310mm	
<b>Cable Supported</b>	Cat 5E and higher (Cat 6 recomanded)		OM2 and Higher Single Mode fiber	
<b>COMPUTER PORTS – TRANSMITTER</b>				
<b>Display Type</b>	DP/HDMI	DP/HDMI	DP/HDMI	DP/HDMI
<b>Mouse and Keyboard</b>	USB Type B	-	USB Type B	-
<b>POWER</b>				
<b>PoE</b>	Yes	Yes	No	No
<b>Power Requirements</b>	TX: 48V RX: 12V DC optional	TX: 48V RX: 12V DC optional	RX/TX: 12V DC	RX/TX: 12V DC
<b>AC Input</b>	100 to 240 AC			
<b>Power Type</b>	External			
<b>PHYSICAL</b>				
<b>Dimensions TX and RX</b>	145 (W) x 105 (D) x 28 (H) mm / 5.8 (W) x 4.2 (D) x 1.1 (H) inch			
<b>Weight</b>	0.64 kg (1.4 lbs)			
<b>ENVIRONMENTAL</b>				
<b>Operating Temperature</b>	32° to 104° F (0° to 40° C)			
<b>Storage Temperature</b>	-4° to 140° F (-20° to 60° C)			
<b>Humidity</b>	0-80% RH, non-condensing			
<b>SOFTWARE</b>				
<b>Supported OS</b>	Windows, Linux, Mac			
<b>CERTIFICATION</b>				
<b>Security Certification</b>	Compliant with NIAP Common Criteria PP4.0 for Peripheral Sharing Device (PSD) devices			
<b>Product Certification</b>	CE, RCM, FCC class B, VCCI, TUV US, TUV Canada			
<b>GENERAL INFO</b>				
<b>Product life-cycle</b>	10 years			
<b>Warranty</b>	2 Years			



\* Depends on the type, quality of the CATx cable.

\*\* Depends on the GBIC type