# THE HSL SECURE EXTENDERS

Ensuring unidirectional data flow for presentation solutions





# 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.

Made in the USA, BAA and TAA Compliant.



# **Device Types:**

- Secure Extended Isolators
- Non-Secure Extenders

#### **Accessories:**

- Rack Mount Kit
- Power Distribution Unit for Isolators and Extenders - PDUI

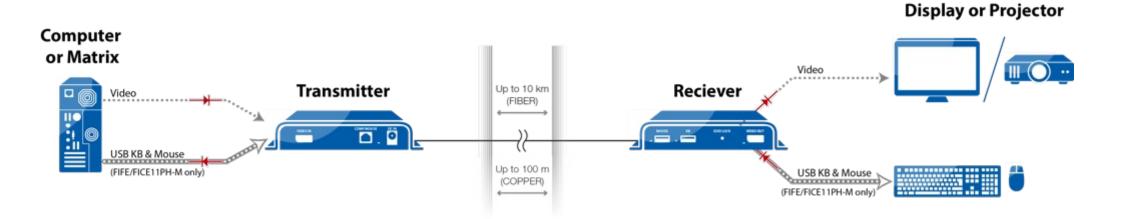








HSL Secure, NIAP PP4.0 Compatible Extended Isolators enable secure unidirectional and filtered long-distance extension of computer video and keyboard/mouse signals, while preventing vulnerable peripherals from compromising network security.

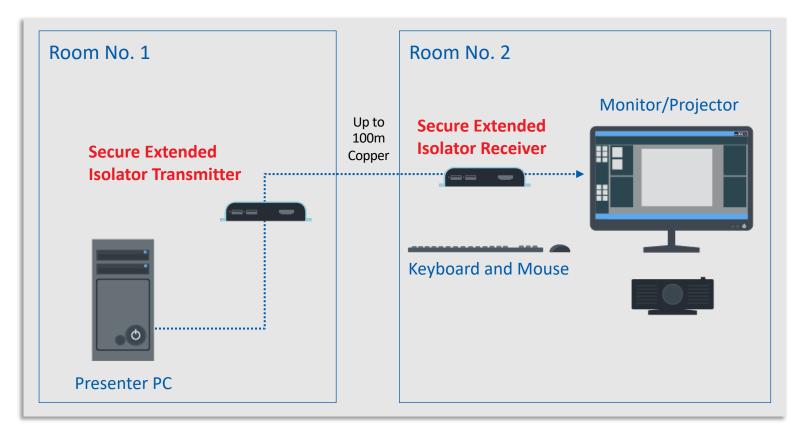




#### Use Case #1 - Remote PC

Remotely project to monitor or projector: The presenter with a PC projects video to a remotely located room via an Extender.

The HSL Secure Isolated Extender ensures security and protection to the connected PC.



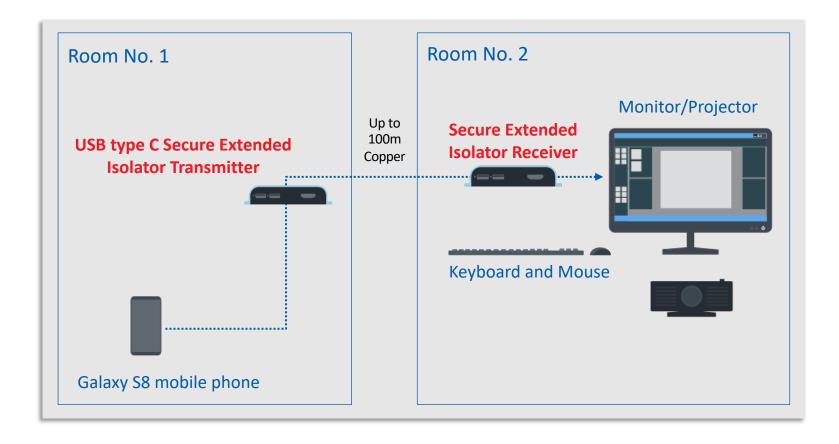
The Secure HSL Extended Isolators have the KVM ability to remotely transfer not only video and audio, but also the keyboard and mouse. This enables securely operating the remote PC from the Monitor/Projector side. The Keyboard/Mouse USBs are also unidirectional and secure.



# Use Case #2 – Remote Mobile Devices

Use remotely a smartphone through the Extended Isolator.

Often in secure environments mobile devices are not allowed to be used inside.

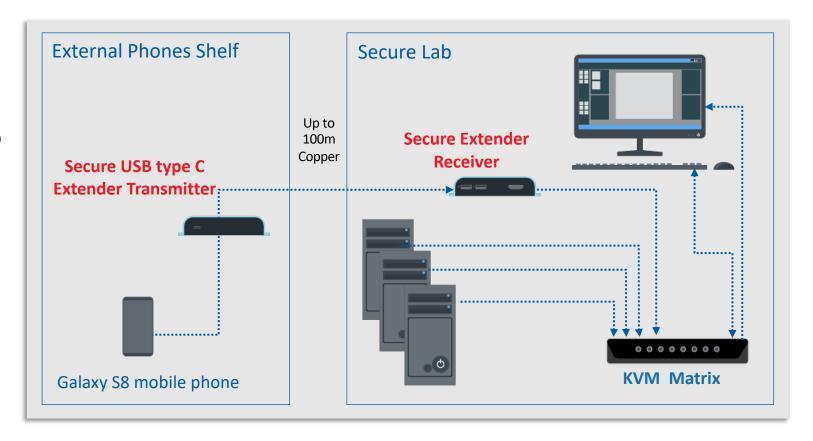


The Secure Extended Isolator with USB Type-C port allows to connect securely to the phone that is left outside the secure room, without compromising the security of other devices in the room.



# Use Case #3 – Remote Mobile to a Secure Room with KVM Matrix

The mobile phone can also be connected through the Secure Extender to the KVM Matrix in the secure room and be operated from there with the same set of Display, KB & Mouse, and the devices in the room will be fully isolated from the Smartphone that is connected to a non Secure Network.





# Secure Extended Isolator – Device Features

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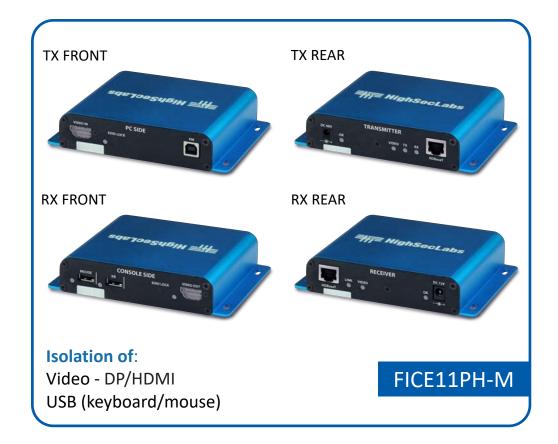
- Fiber or copper cables connecting options, enable connection of up to 10km between the source and the console
- Using Valence high performance HDBaseT technology that provides zero-latency between transmitter and receiver units
- DP/HDMI combined connectors provide more flexibility in the connected devices, from both sides
- High quality video support at 4K 30hz resolution
- DP/HDMI combined connector
   Allows connecting both type of cables Display
   Port and HDMI





# Secure Extended Isolator Copper Models

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#### All Fiber Extender models:

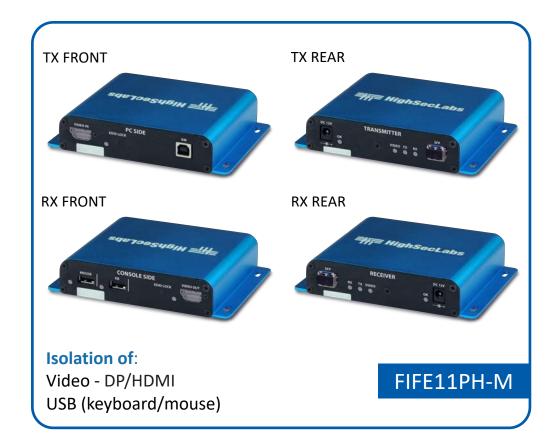
- Single PC source , single output display
- Resolutions Up to 4K-2K Ultra HD resolutions (3840 X 2160 pixels), 30Hz





# Secure Extended Isolator Fiber Models

HSL SECURE EXTENDERS





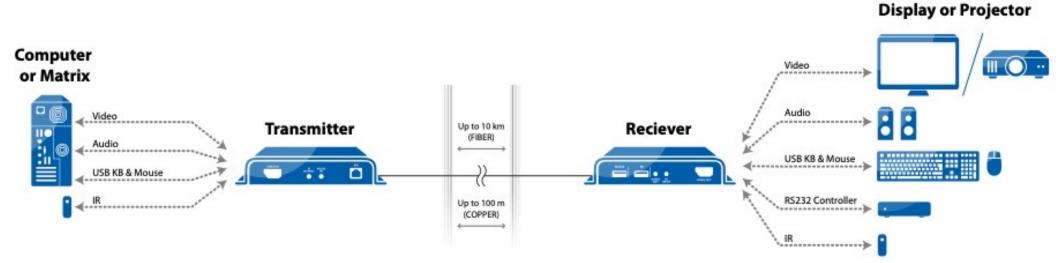
#### All Fiber Extender models:

- Single PC source , single output display
- Resolutions Up to 4K-2K Ultra HD resolutions (3840 X 2160 pixels), 30Hz





**HSL Extenders** enable long-distance extension of computer video, audio, keyboard/mouse, and IR remote signals, using Valence high performance HDBaseT technology.

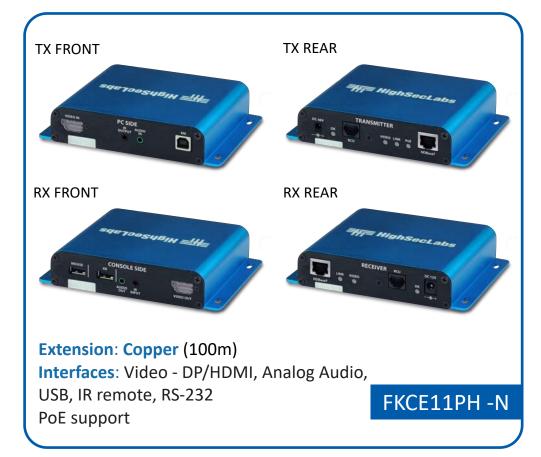


The non Secure Extender Units support:

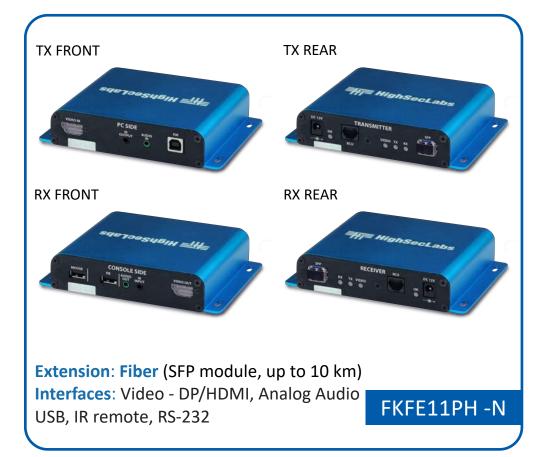
- Analog audio
- IR remote port
- 4K, 30Hz video resolution



# **Copper KVM Extender**

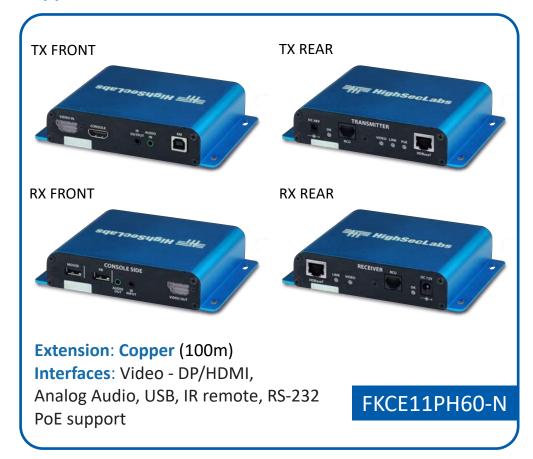


#### **Fiber KVM Extender**





# **Copper KVM Extender**





# **Copper USB Extender**



#### **Copper USB Extender**





# Power Distribution Unit for Isolators and Extenders - PDUI

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Connecting multiple Isolators and Extenders to computers in a rack.

Saves space and power outlets on a network cabinet by using an external central redundant Power Distribution Unit for Isolators (PDUI):

- Only one connection to an external power source, eliminating the need for a separate supply outlet for each adaptor
- A 10 outlets hub with built-in transformer capability

   eliminates the need for a separate power adaptor
   for each Isolator

# Optional models:

- 10 outlets, 12V hub
- 10 outlets, 48V hub specially for PoE copper extenders.
- 1U Size







Enables mounting up to 10 FV11X/FI11X Extenders

in a 19" 4U rack space.







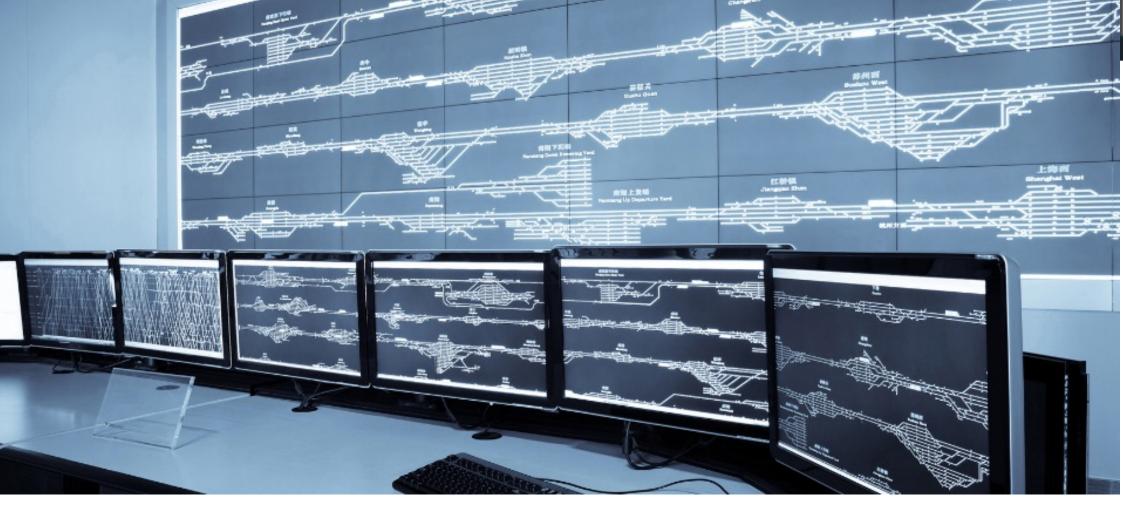


# HSL Isolators and Extenders Models Summary

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Model	Description
Secure Extender Isolators	
FICE11PH-M	DP/HDMI Secure Copper Extended KVM Isolator up to 100 meters 4K 30hz
FVCE11PH-M	DP/HDMI Secure Copper Extended Video Isolator up to 100 meters 4K 30hz
FICE11CH-M	USB C to HDMI Secure Copper extended KVM isolator up to 100 meters 4K 30hz
FIFE11PH-M	DP/HDMI Secure Fiber Extended KVM Isolator up to 10KM 4K 30hz
FVFE11PH-M	DP/HDMI Secure Fiber Extended Video Isolator up to 10KM 4K 30hz
Non-Secure Extenders (Arriving Soon)	
FKCE11PH-N	DP/HDMI Copper Extender KVM up to 100 meters 4K 30hz
FKFE11PH-N	DP/HDMI Fiber Extender KVM up to 10KM 4K 30Hz
FKCE11PH60-N	DP/HDMI Copper Extender KVM up to 100 meters 4K 60hz
FMCE10N-N	USB Copper Extender KM up to 100 meters
UMCE10N-N	USB 2.0 Copper Extender up to 100 meters
Accessories	
PDUI10	10 Port 12v DC Junction box
RK-4U-HKS-10	Rack Mount KIT 4U
RK-1U6-FI11X-M	6 Isolators Metal Chassis Tray Packing Kit





# **THANK YOU**

