

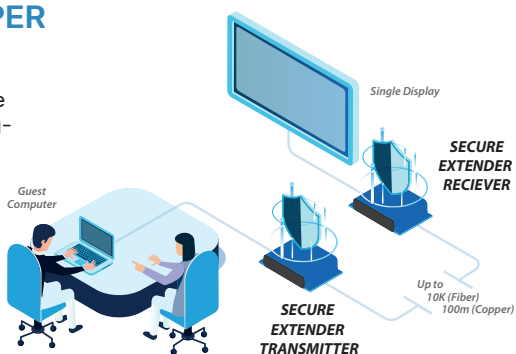
# VIDEO AND KVM **EXTENDERS**



# HSL'S KVM AND VIDEO EXTENDERS

## SECURELY EXTEND KEYBOARD, VIDEO, MOUSE VIA COPPER OR FIBER.

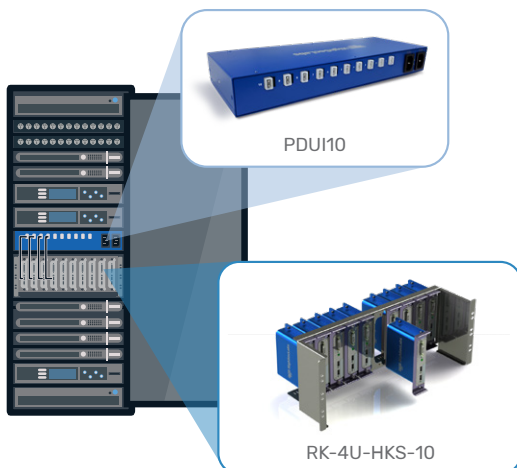
HSL Secure Extended Isolators enable secure unidirectional and filtered long-distance extension of computer video and keyboard/mouse signals, while preventing vulnerable peripherals from compromising network security.



## ACCESSORIES RACK MOUNT KIT AND PDUI

The **RK-4U-HKS-10** enables mounting up to 10 HSL Extenders 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 Extenders. The PDUI solves lack of space and power outlets problem for crowded installations, by eliminating the need for many 12V/48V DC power adapters.



# SECURE VIDEO/KVM EXTENDERS

Extenders with built in Isolation functions, enable secure unidirectional and filtered long-distance extension of computer video and keyboard/mouse signals, while preventing vulnerable peripherals from compromising network security.



MODEL		FICE11PH-M	FVCE11PH-M	FIFE11PH-M	FVFE11PH-M
CONSOLE - RX	No. of Sources	1	1	1	1
	Max Resolution (Input & Output)	UHD 4K resolutions up to 3840x2160 @ 30 Hz Up to 100M*		UHD 4K resolutions up to 3840x2160 @ 30 Hz Up to 10K**	
	Displays	DP/HDMI	DP/HDMI	DP/HDMI	DP/HDMI
	Mouse & KB	2 x USB Type A	-	2 x USB Type A	-
COMPUTER - TX	Link Port	RJ45	RJ45	SFP [Supports OM2 and OM3 fibers]	
	Display Type	DP/HDMI	DP/HDMI	DP/HDMI	DP/HDMI
	Mouse & KB	USB Type B	-	USB Type B	-
PWR	PoE	yes	yes	No	No
	Power Requirements	TX: 48V / RX: 12V DC optional		RX/TX: 12V DC	RX/TX: 12V DC
	AC Input	100 to 240 AC			
	Power Type	External			
PHYC	DIM. TX & RX	145 (W) x 105 (D) x 28 (H) mm [5.8 (W) x 4.2 (D) x 1.1 (H) in]			
	Weight	0.64 kg (1.4 lbs)			

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

\*\* Depends on the GBIC type

# OFFICE KVM EXTENDERS

Enable long-distance extension of computer video, audio, keyboard/mouse, and IR remote signals, using high performance HDBaseT technology.



	MODEL	FKCE11PH -N	FKCE11PHEC-N	FKFE11PH -N	FKCE11PH60-N	SKFE11PH-N	UMCE10N-N
	<b>Sources</b>	1	1	1	1	1	1
	<b>Extension</b>	Copper	Copper	Fiber	Copper	Fiber\Copper	Copper
	<b>Link Port</b>	RJ45	RJ45	SFP*	RJ45	SFP*	RJ45
	<b>Max Resolution</b>	UHD 4K resolutions up to 3840x2160 @ 30 Hz Up to 100m**	UHD 4K resolutions up to 3840x2160 @ 30 Hz Up to 70m**	UHD 4K resolutions up to 3840x2160 @ 30 Hz Up to 10km***	UHD 4K resolutions up to 3840x2160 @ 60 Hz Up to 70m**	UHD 4K resolutions up to 3840x2160 @ 60 Hz Up to 10km*** (Fib.)/ 100m** (Cop.)	N/A
	<b>Displays</b>	DP/HDMI	HDMI	DP/HDMI	DP/HDMI	DP/HDMI	N/A
CONSOLE - RX	<b>USB Ports</b>	2 x USB 2.0 Type A	2 x USB 2.0 Type A	2 x USB 2.0 Type A	2 x USB 2.0 Type A	3 x USB Type A (2 for HID devices and 1 for any USB 2.0 device)	1 x USB 2.0 Type A 480MBPS
	<b>Audio OUT</b>	3.5 mm Jack	3.5 mm Jack	3.5 mm Jack	3.5 mm Jack	3.5 mm Jack	N/A
	<b>IR Remote</b>	Mini PL (IN)	Mini PL (IN)	Mini PL (IN)	Mini PL (IN)	Mini PL (IN)	N/A
	<b>RS232</b>	RJ 14 (OUT)	Terminal Block	RJ 14 (OUT)	RJ 14 (OUT)	Terminal Block	N/A
COMPUTER - TX	<b>Video Source Format</b>	DP/HDMI	DP/HDMI	DP/HDMI	Output: DP/HDMI, Local: HDMI	Output: DP/HDMI, Local: HDMI	N/A
	<b>Mouse &amp; KB</b>	USB 2.0 Type B	USB 2.0 Type B	USB 2.0 Type B	USB 2.0 Type B	USB 2.0 Type B	USB 2.0 Type B
	<b>Audio OUT</b>	3.5 mm Jack	3.5 mm Jack	3.5 mm Jack	3.5 mm Jack	3.5 mm Jack	N/A
	<b>IR Remote</b>	Mini PL (OUT)	Mini PL (OUT)	Mini PL (OUT)	Mini PL (OUT)	Mini PL (OUT)	N/A
	<b>RCU</b>	RJ14 (IN)	Terminal Block	RJ14 (IN)	RJ14 (IN)	Terminal Block	N/A
PWR (TX/RX)	<b>PoE</b>	Yes	PoC	No	Yes	No	No
	<b>Power Req.</b>	TX: 48V DC RX: 12V DC opt.	TX: 48V DC RX: 12V DC opt.	12V DC	TX: 48V DC RX: 12V DC opt.	12V DC	5V DC via USB mini B port
	<b>AC Input</b>	100 to 240 AC	100 to 240 AC	100 to 240 AC	100 to 240 AC	100 to 240 AC	N/A
	<b>Power Type</b>	External	External	External	External	External	External
PHYC	<b>Dim.</b>	145 (W) x 105 (D) x 28 (H) mm				145 (W) x 215 (D) x 28 (H) mm	28 (W) x 60 (D) x 17 (H) mm
	<b>Weight</b>	0.64 kg				0.90 kg (est.)	0.02 kg

\* Max distance can be extended by replacing the SFP module used.

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

\*\*\* Depends on the GBIC type

## KVM EXTENDERS

- **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.



- **Power Over Ether (POE) Support**

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



## VIDEO SECURITY

- **Secure Video and KVM Line**  
Isolating between source and target for use in secure environments.
- **EDID Capture**  
Unique EDID capture mechanism allowing users to keep previously used EDID for easier installation.

- **Flexibility**

Two replaceable SFP transceivers included with every fiber model unit allowing the user to change according to his infrustcture.



**MADE IN THE USA,  
BAA AND TAA COMPLIANT.**



## NEW RELEASE ECONOMY EXTENDERS

Introducing our Economy Line KVM Extenders—a cost-effective solution designed for streamlined workspace management. Crafted with precision, these extenders feature a unique dual DP and HDMI transmitter port, allowing easy connection of both sources. Power over Cable (POC) ensures hassle-free installation without the need for additional power ports.



## COMING SOON SDVoE EXTENDERS

Introducing our cutting-edge SDVoE (Software-Defined Video over Ethernet) Extenders, redefining high-quality AV connectivity. With unparalleled 4K 60hz video and audio transmission at zero latency over a single Fiber or Copper Ethernet cable, HSL's SDVoE extenders are the perfect solution for demanding users. Featuring unique DP/HDMI dual connectors, support for both Copper or Fiber infrastructure, HSL's SDVoE extenders are flexible and easy to install.



### HIGH SEC LABS (HSL)

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



[www.highseclabs.com](http://www.highseclabs.com)

© 2023 HighSecLabs Inc. All rights reserved. HSL logo and product names are trademarks or service trademarks of HighSecLabs Ltd (HSL). All other marks are the property of their respective owners. Images for demonstration purposes only. Patents: [www.highseclabs.com/patents/](http://www.highseclabs.com/patents/). HLT29640 Rev 1.2