

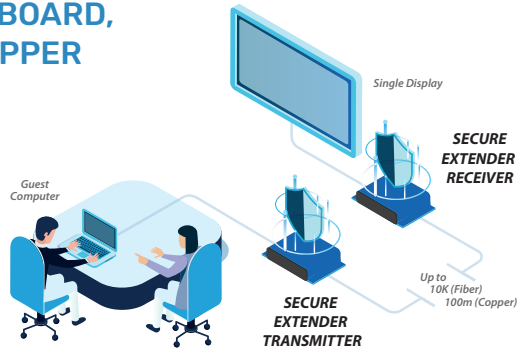
VIDEO AND KVM **EXTENDERS**



VIDEO AND KVM EXTENDERS

SECURELY EXTEND KEYBOARD, VIDEO, MOUSE OVER COPPER OR FIBER.

HSL's secure extended isolators provide secure unidirectional and filtered long distance extension of computer video and keyboard/mouse signals, while preventing vulnerable peripherals from compromising network security.

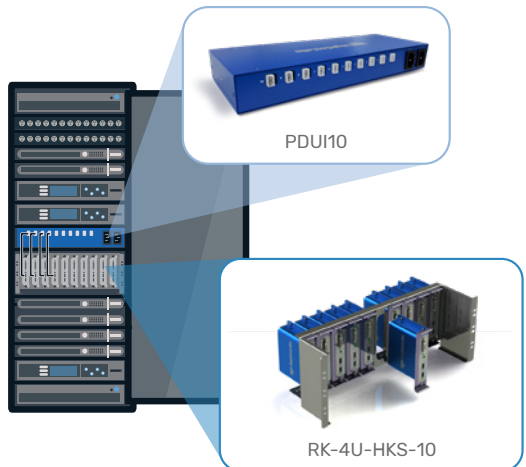


ACCESSORIES

RACK MOUNT KIT AND PDU

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

The PDU is a 10/12/24 output power supply that provides power to 12V/48V DC powered devices such as HSL's Extenders. The PDU is the ideal solution for limited space and lack of power outlets common to dense installations, by eliminating the need for multiple 12V/48V DC power adapters.



SECURE VIDEO/KVM EXTENDERS

Extenders with built in isolation functions, provide 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
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**	
CONSOLE - RX	Displays	DP/HDMI	DP/HDMI	DP/HDMI
	Mouse & KB	2 x USB Type A	-	2 x USB Type A
	Link Port	RJ45	RJ45	SFP [Supports OM2 and OM3 fibers]
COMPUTER - TX	Display Type	DP/HDMI	DP/HDMI	DP/HDMI
	Mouse & KB	USB Type B	-	USB Type B
PWR	PoE	yes	yes	No
	Power Requirements	TX: 48V / RX: 12V DC optional		RX/TX: 12V DC
	AC Input	100 to 240 AC		
	Power Type	External		
PHYS	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

COMMERCIAL KVM EXTENDERS

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
Sources	1	1	1	1	1	1
Extension	Copper	Copper	Fiber	Copper	Fiber\Copper	Copper
Link Port	RJ45	RJ45	SFP*	RJ45	SFP*	RJ45
Max Resolution	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
Displays	DP/HDMI	HDMI	DP/HDMI	DP/HDMI	DP/HDMI	N/A
USB Ports	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
Audio OUT	3.5 mm Jack	3.5 mm Jack	3.5 mm Jack	3.5 mm Jack	3.5 mm Jack	N/A
IR Remote	Mini PL (IN)	Mini PL (IN)	Mini PL (IN)	Mini PL (IN)	Mini PL (IN)	N/A
RS232	RJ 14 (OUT)	Terminal Block	RJ 14 (OUT)	RJ 14 (OUT)	Terminal Block	N/A
Video Source Format	DP/HDMI	DP/HDMI	DP/HDMI	Output: DP/HDMI, Local: HDMI	Output: DP/HDMI, Local: HDMI	N/A
Mouse & KB	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
Audio OUT	3.5 mm Jack	3.5 mm Jack	3.5 mm Jack	3.5 mm Jack	3.5 mm Jack	N/A
IR Remote	Mini PL (OUT)	Mini PL (OUT)	Mini PL (OUT)	Mini PL (OUT)	Mini PL (OUT)	N/A
RCU	RJ14 (IN)	Terminal Block	RJ14 (IN)	RJ14 (IN)	Terminal Block	N/A
PoE	Yes	PoC	No	Yes	No	No
Power Req.	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
AC Input	100 to 240 AC	100 to 240 AC	100 to 240 AC	100 to 240 AC	100 to 240 AC	N/A
Power Type	External	External	External	External	External	External
Dim.		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
Weight		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

+ Uses a new 10Gbps zero-latency technology instead of HDBaseT

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, using a single connector.



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

Power the extender receiver via POE using 48V connected to TX unit.

VIDEO SECURITY

- **Secure Video and KVM Line**

Isolation between source and target for use in secure environments.

- **EDID Capture**

Unique EDID capture mechanism retains previously used EDID for easier installation.

- **Flexibility**

Two replaceable SFP transceivers included with every fiber model unit ensuring long-term infrastructure compatibility.



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

FKCE1PHEC-N

NEW RELEASE ECONOMY EXTENDERS

Introducing our Economy Line KVM Extenders – a cost-effective extension solution. Crafted with precision, these extenders feature a dual DP and HDMI transmitter port, allowing easy connection of either source. Power over Cable (POC) ensures hassle-free installation without the need for additional power supplies.



COMING SOON NEOUS EXTENDERS

Introducing our cutting-edge Neous Extenders, redefining high-quality AV connectivity. With unparalleled 4K 60hz video and audio transmission at 10Gbps zero latency over a single fiber or copper Ethernet cable, HSL's Neous extenders are the perfect solution for high quality multi-user, multi-source installations. Featuring unique DP/HDMI dual connectors and support for both copper or fiber infrastructure, HSL's Neous extenders are flexible and easy to install.

SKFE11PH-N



HIGH SEC LABS (HSL)

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



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