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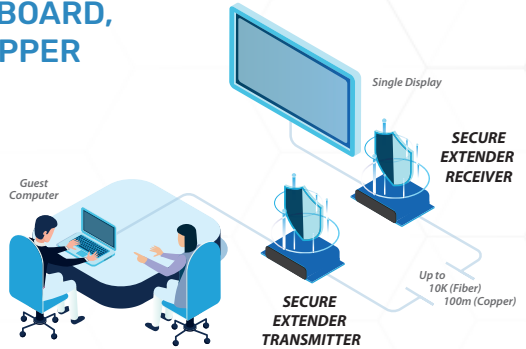
VIDEO & KVM EXTENDERS



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.



PDU10



RK-4U-HKS-10

SECURE VIDEO/KVM EXTENDERS

HSL has a full range of secure extension products supporting PoE, TEMPEST, NIAP PP4.0 PSD, and MIL-SPEC.



DP/HDMI
Combo Connector

MODEL	FICE11PH-M	FVCE11PH-M	FIFE11PH-M/MT	FVFE11PH-M/MT
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]
HOST - TX	Display Type	DP/HDMI	DP/HDMI	DP/HDMI
	Mouse & KB	USB Type B	-	USB Type B
PWR	PoE	yes	yes	No
	Power Req.	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)		
CERT.	Security Certification	Compliant with NIAP Common Criteria PP4.0 PSD Protection Profile TEMPEST Level B Compliant (FIFE11PH-MT and FVFE11PH-MT only)		
	Product Certification	CE, RCM, FCC class B, VCCI, TUV US, TUV Canada		

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

** Depends on the GBIC type



UMCE10C-N

COMMERCIAL KVM EXTENDERS

Long-distance extension of computer video, audio, keyboard/mouse, USB 3.2/2.0, RS-232, and IR remote signals, using high performance HDBaseT technology.



MODEL	FKCE11PH -N	FKCE11PHEC-N	FKFE11PH -N	FKCE11PH60-N	UMCE10C-N	UMCE10N-N	
Sources	1	1	1	1	1	1	
Extension	Copper	Copper	Fiber	Copper	Copper	Copper	
Link Port	RJ45	RJ45	SFP*	RJ45	RJ45	RJ45	
CAT 6A Link	N/A	N/A	N/A	N/A	90m	N/A	
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**	N/A	N/A	
CONSOLE - RX	Displays	DP/HDMI	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	4 x USB 3.2 Type A	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	N/A	N/A
	IR Remote	Mini PL (IN)	Mini PL (IN)	Mini PL (IN)	Mini PL (IN)	N/A	N/A
	RS232	RJ 14 (OUT)	Terminal Block	RJ 14 (OUT)	RJ 14 (OUT)	Terminal Block	N/A
HOST - TX	Video Source Format	DP/HDMI	DP/HDMI	DP/HDMI	Output: DP/HDMI, Local: HDMI	N/A	N/A
	Mouse & KB	USB 2.0 Type B	USB 2.0 Type B	USB 2.0 Type B	USB 2.0 Type B	1 x USB 3.2 Type C	USB 2.0 Type B
	Audio OUT	3.5 mm Jack	3.5 mm Jack	3.5 mm Jack	3.5 mm Jack	N/A	N/A
	IR Remote	Mini PL (OUT)	Mini PL (OUT)	Mini PL (OUT)	Mini PL (OUT)	N/A	N/A
	RCU	RJ14 (IN)	Terminal Block	RJ14 (IN)	RJ14 (IN)	N/A	N/A
PWR (TX/RX)	PoE	Yes	PoC	No	Yes	PoC	No
	Power Req.	TX: 48V DC RX: 12V DC opt.	TX: 12V DC RX: 12V DC opt.	12V DC	TX: 48V DC RX: 12V DC opt.	12VDC / 3.5A	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
PHYS	Dim.	145 (W) x 105 (D) x 28 (H) mm				140 (W) x 74 (D) x 28 (H) mm	28 (W) x 60 (D) x 17 (H) mm
	Weight	0.64 kg				0.14 kg	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

EXTENDERS HIGHLIGHTS

KVM EXTENDERS

- **Extra Long Range**

Using either fiber (10km) or copper (100m) to connect between source and display.

- **DP/HDMI Combo Connector**

Allows connecting both type of cables – Display Port and HDMI – including format conversion, using a single connector.

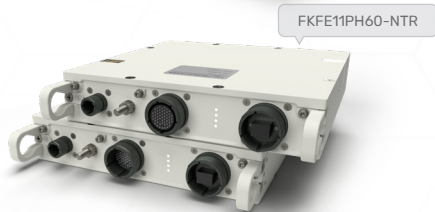


- **Power Over Ethernet (POE) Support**

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

- **Rugged Extenders**

Full MIL-SPEC fiber & copper extension for the tactical deployments



VIDEO SECURITY

- **Secure Video and KVM Products**

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.



FKCE1PHEC-N

NEW RELEASE ECONOMY EXTENDERS

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



HIGH SEC LABS (HSL)

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

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



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