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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.



SECURE VIDEO/KVM EXTENDERS



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

MODEL		FICE11PH-M	FVCE11PH-M	FIFE11PH-M/MT	FVFE11PH-M/MT
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	-
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			
PHYS	Power Type	External			
	DIM. TX & RX	140 (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 version available (FIFE11PH-MT and FVFE11PH-MT only)			
	Certification	CE, RCM, FCC class B, VCCI, TUV US, TUV Canada			

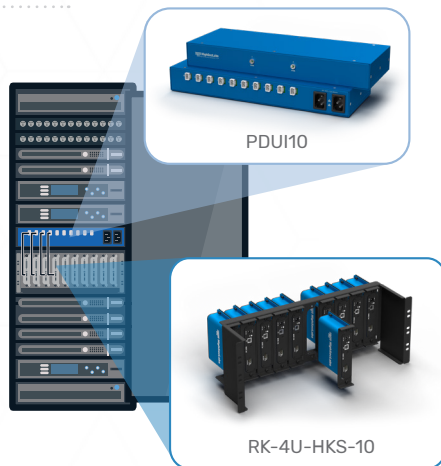
* Depends on the type, quality of the CATx cable.
** Depends on the GBIC type

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.



COMMERCIAL

FIBER KVM EXTENDERS

Up to 10km 1:1 extension of computer video, audio, keyboard/mouse, RS-232, and IR signals over fiber-optic.

	MODEL	FKFE11P-N	FKFE11PH-N	FKFE11PHU60-N
TX UNIT	No. of Sources	1		
	Link Port	SPF*		
	Extension Length	10km**		
	Transmitter Model	FKFE11PT-N	FKFE11PHT-N	FKFE11PHU60T-N
	Video Ports	1xDP		1xDP/HDMI
	Max Resolution	UHD 4k up to 3840x2160 30Hz		UHD 4k up to 3840x2160 60Hz
	USB Ports	1x USB 2.0 Type B		2x USB 2.0 Type B
	Audio Jack		3.5mm jack	
RX UNIT	IR Remote Port		Mini PL (OUT)	
	RC Port	RJ14 (IN)		3-Pin Serial Block
	Receiver Model	FKFE11PR-N	FKFE11PHR-N	FKFE11PHU60R-N
	Video Port	1xDP		1xDP/HDMI
	Max Resolution	UHD 4k up to 3840x2160 30Hz		UHD 4k up to 3840x2160 60Hz
	USB Ports	2x USB 2.0 Type A		3x USB HID Type A
	Audio Jack		3.5mm jack	
	IR Remote Port		Mini PL (IN)	
PHYS	RC Port	RJ14 (OUT)		4-Pin Serial Block
	Power	12V DC, External	12V DC, External	TX: 12V DC, RX 12 V DC, External
	Dimensions	145x105x28mm / 5.8x4.2x1.1in (Transmitter/Receiver)		140x210x28mm / 5.5x8.3x1.1in
	Weight	0.64kg / 1.4lbs (Transmitter/Receiver)		1.1kg / 2.4lb

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

** Depends on the GBIC type

SFP - Data speed: 1.25 Gbps Wave length: 1300nm Fiber optical connector: LC Single mode Fiber

COMMERCIAL

COPPER KVM EXTENDERS

Up to 100m 1:1 extension of computer video, audio, keyboard/mouse, RS-232, and IR signals over copper.

	MODEL	FKCE11PHEC-N	FKCE11PH60-N	FKCE11PHU60-N	UMCE10N-N	UMCE10C-N
	No. of Sources	1				
	Link Port	RJ45				
	CAT 6A Link	N/A				90m
	Extension Length	100m*	70m*	100m*	100m*	
TX UNIT	Transmitter Model	FKCE11PHECT-N	FKCE11PH60T-N	FKCE11PHU60T-N	UMCE10N-NTX	UMCE10C-NTX
	Video Ports	1x DP/HDMI	Output: 1xDP/HDMI Console: 1xHDMI	1x DP/HDMI	N/A	
	Max Resolution	UHD 4k up to 3840x2160 30Hz	UHD 4k up to 3840x2160 60Hz			N/A
	USB Ports	USB 2.0 Type B		2x USB 2.0 Type B	Micro USB Type B	USB 3.2 Type C
	Audio Jack	N/A	3.5mm jack			N/A
	IR Remote Port	Mini PL (OUT)				N/A
	RC Port	3-Pin Serial Block	RJ14 (IN)	3-Pin Serial Block	N/A	3-Pin Serial Block
	Receiver Model	FKCE11PHECR-N	FKCE11PH60R-N	FKCE11PHU60R-N	UMCE10N-NRX	UMCE10C-NRX
RX UNIT	Video Port	1xDP/HDMI			N/A	
	Max Resolution	UHD 4k up to 3840x2160 30Hz	UHD 4k up to 3840x2160 60Hz			N/A
	USB Ports	USB 2.0 Type A		3x USB 2.0 Type A	1x USB 2.0 Type A	4x USB 3.2 Type A
	Audio Jack	N/A	3.5mm jack			N/A
	IR Remote Port	Mini PL (IN)				N/A
	RC Port	RJ14 (OUT)		4-pin serial block	N/A	4-Pin Serial Block
PWR	PoE	PoC	Yes	No	No	PoC
	Power	TX: 12V DC, 2.5A RX: 12V DC opt.	TX: 12V DC**, 1.25A RX: 12V DC opt.	TX: 12V DC, 2.5A RX: 12V DC, 2.5A	5V DC via USB mini B port	12VDC, 3.5A
	Power Type	External				
PHYS	Dimensions	145x105x28mm / 5.8x4.2x1.1in (Transmitter/Receiver)		140x210x28mm / 5.5x8.3x1.1in	28x60x17mm / 1.1x2.4x0.7in	140x74x28mm / 5.5x2.9x1.1in
	Weight	0.64kg / 1.4lbs (Transmitter/Receiver)		1.3kg / 2.8lb	0.2kg / 0.5lb	0.1kg / 0.3lb

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

** Previous versions include a 48V DC power supply.



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 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.



FKFE11PHU60R-N

NEW RELEASE

COMMERCIAL 4K@60 KVM EXTENDERS WITH USB 2.0



Introducing our new Commercial KVM Extender – a high-performance extension solution delivering 4K at 60Hz over copper for distances of up to 100m. Designed for versatile connectivity, it features USB 2.0 and RS-232 support, enabling seamless extension of video, peripherals, and control signals over a single connection.

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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