



FIBER KVM EXTENDERS

Extend keyboard, video, and mouse signals over fiber-optic cable.

HSL's fiber KVM Extenders use paired Transmitters and Receivers to extend computer video, audio, keyboard/mouse, and IR remote signals without latency over distances up to 10 kilometers. This is ideal for users connecting to centralized computer networks from physically distant workstations.



PRODUCT LINE HIGHLIGHTS

- **Long Distance Extension:** Extend KVM signals through fiber over distances up to 10km.
- **Zero Latency:** Send signals between the paired Transmitters and Receivers without latency or lag.
- **Ultra-HD Video Quality:** Transmit and receive video signals at UHD 4K resolutions up to 3840x2160 at 30Hz.
 - The FKFE11PHU60-N and FKFE11PHU60RD-N can extend video signals at 60Hz.
- **Combo Connector:** Connect both DisplayPort and HDMI video displays to the Extender pairs via the unique combo connector video port.
 - The FKFE11P-N only supports DP video.
- **Audio Extension:** Transmit and receive audio signals without any loss of sound quality.
- **Dedicated HID Ports:** Extend keyboard and mouse signals with dedicated HID ports on both the Transmitter and Receiver.
- **Serial Control:** Control a wide range of devices by transmitting and receiving RS232 serial commands.
- **IR Remote Control Extension:** Use an IR remote control to send signals from one side of the Extender pair to the other.
- **Full USB 2.0 Extension (FKFE11PHU60-N, FKFE11PHU60RD-N):** Extend and power any USB 2.0 device, such as a webcam, at 480Mbps.
- **Power and Fiber Link Backups:** Maintain connectivity with redundant power and fiber ports.



FKFE11PH-N

Fiber KVM Extender, DP/HDMI Video, 4K UHD 30Hz



FKFE11PHU60-N

Fiber KVM Extender, DP/HDMI Video, 4K UHD 60Hz, USB 2.0



FKFE11P-N

Fiber KVM Extender, DP Video, 4K UHD 30Hz



FKFE11PHU60RD-N

Fiber KVM Extender, DP/HDMI Video, 4K UHD 60Hz, USB 2.0, Redundant Power/Fiber Ports

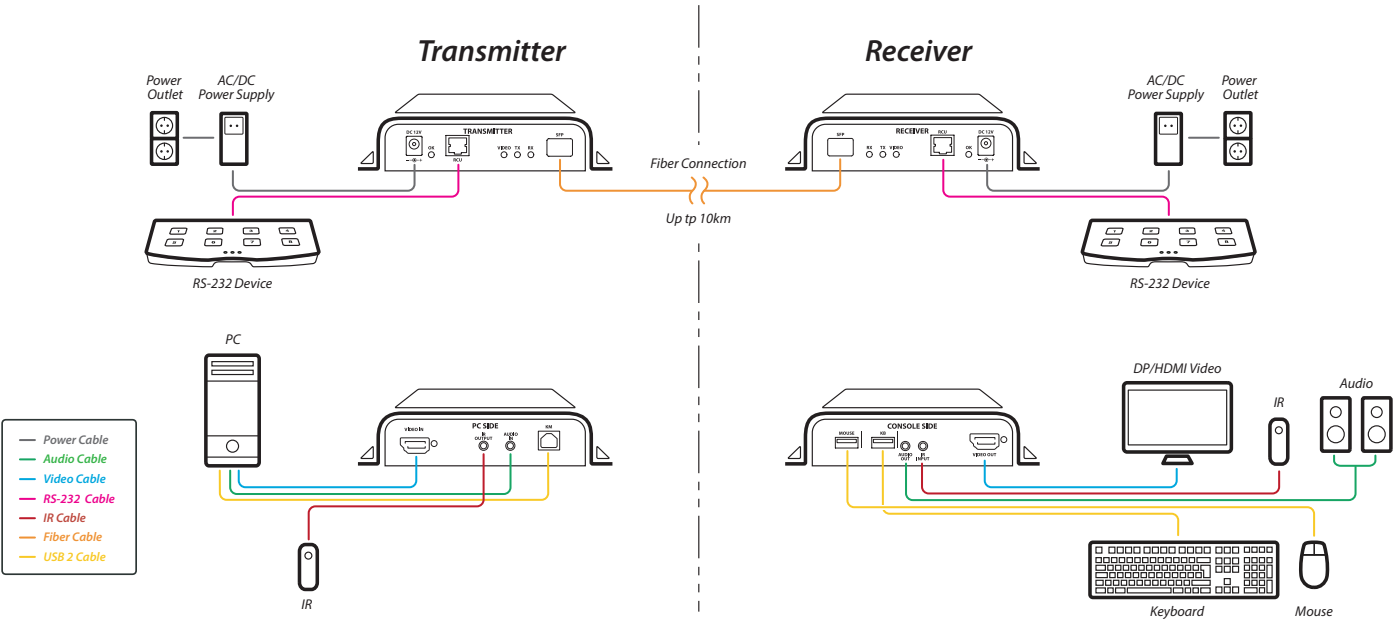


PHYSICAL SPECIFICATION

MODELS	FKFE11PH-N		FKFE11P-N	FKFE11PHU60-N	FKFE11PHU60RD-N
No. of Sources	1				
Extension Type	LC Single-Mode Fiber				
Link Port	1 x Link Ports SFP+ Data speed: 10 Gbps, Wave length: 1300nm, Fiber optical connector: LC Single mode Fiber			2 x Link Ports SFP+ Data speed: 10 Gbps, Wave length: 1300nm, Fiber optical connector: LC Single mode Fiber	
Extension Length	10km				
TRANSMITTER UNITS					
TRANSMITTER MODEL	FKFE11PHT-N		FKFE11PT-N	FKFE11PHU60T-N	FKFE11PHU60RDT-N
Video Port	1xDP/HDMI		1xDP	1xDP/HDMI	1xDP/HDMI
Max Resolution	UHD 4k up to 3840x2160 30Hz			UHD 4K up to 3840x2160 60Hz	
Mouse and Keyboard	USB 2.0 Type B			1x USB HID Type B	
USB Peripheral Port	n/a			1 USB 2.0 Type A	
Audio Jack	3.5mm jack				
IR Remote Port	Mini PL (OUT)				
RS232 Control Port	RJ14 (IN)			3-Pin Terminal Block	
RECEIVER UNITS					
Receiver Model	FKFE11PHR-N		FKFE11PR-N	FKFE11PHU60R-N	FKFE11PHU60RDR-N
Video Port	1xDP/HDMI		1xDP	1xDP/HDMI	1xDP/HDMI
Max Resolution	UHD 4k up to 3840x2160 30Hz			UHD 4K up to 3840x2160 60Hz	
Mouse and Keyboard	2xUSB 2.0 Type A			2xUSB HID Type A	
USB Peripheral Port	n/a			1 USB 2.0 Type A	
Audio Jack	3.5mm jack				
IR Remote Port	Mini PL (IN)				
RS232 Control Port	RJ14 (OUT)			4-Pin Terminal Block	
POWER					
Power Requirements	12V DC				2x12V DC
AC Input	100 to 240 AC				
Power Supply Type	External				
PHYSICAL					
Dimensions	145x105x28mm / 5.8x4.2x1.1in (Transmitter/Receiver)			140x240x28mm / 5.5x8.3x1.1in (Transmitter/Receiver)	
Weight	0.64kg / 1.4lbs (Transmitter/Receiver)			1.1kg /2.4 lbs (Transmitter/Receiver)	
ENVIRONMENTAL					
Operating Temperature	0°C to 40°C / 32°F to 104°F				
Storage Temperature	-20°C to 60°C / -4°F to 140°F				
Humidity	0%-80% RH, non-condensing				
SOFTWARE					
Supported OS	Windows, Linux, Mac				
GENERAL INFO					
Manufactured	BAA & TAA Compliant				
Product Lifecycle	10 Years				
Warranty	2 Years				

ORDERING INFORMATION

MODEL	P/N	ITEM	QTY
FKFE11PH-N	CPN20498	Commercial 10km Fiber Extended KVM Transmitter	1
		Commercial 10km Fiber Extended KVM Receiver	1
		Wall-Mount 12VDC Power Supply	2
		USB HID Filter	1
FKFE11P-N	CPN33914	Commercial 10km Fiber Extended KVM Transmitter, DP	1
		Commercial 10km Fiber Extended KVM Receiver, DP	1
		Wall-Mount 12VDC Power Supply	2
		USB HID Filter	1
FKFE11PHU60-N	CPN29810	Commercial 10km KVM Extender Transmitter, 4k 60Hz	1
		Commercial 10km KVM Extender Receiver, 4k 60Hz	1
		Wall-Mount 12VDC Power Supply	2
		USB HID Filter	1
FKFE11PHU60RD-N	CPN37710	Commercial 10km KVM Extender Transmitter, 4k 60Hz, Redundant Fiber/Power	1
		Commercial 10km KVM Extender Receiver, 4k 60Hz, Redundant Fiber/Power	1
		Wall-Mount 12VDC Power Supply	2
		USB HID Filter	1



FKFE11PH-N 4k 30Hz Extender Network Diagram