



KA277 HDMI KVM EXTENDER 1080P 100METER



Introduction

This 1080P HDMI Extender can extend HDMI video/audio signal up to 100m/328ft over CAT6/6a cable, achieving zero-delay and uncompressed long-distance transmission between the signal source and display device. Video resolution is up to 1080P@60Hz. It supports EDID copy pass-through on source and sink end, along with PoC and KVM extending synchronously. This multi-functional product can be widely applied in scenarios of large-screen demonstration, video conference, multimedia teaching and other occasions.

Features

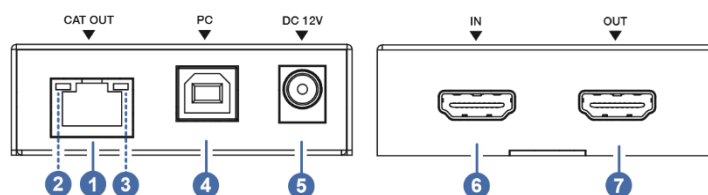
- Compliant with HDCP 1.4
- Video bandwidth is 4.95Gbps
- Video resolution is up to 1080P@60Hz, 1920x1200@60Hz, as specified in HDMI 1.3
- Transmission distance can be up to 100m/328ft over CAT6/6a cable
- Support KVM transmission
- Support loop out on Transmitter
- Support audio format up to LPCM 2.0CH
- Support zero-delay transmission for video/audio signal
- Support bi-directional PoC function
- Support EDID copy pass-through on source and sink end

Specifications

Technical	
HDMI Compliance	HDMI 1.3
HDCP Compliance	HDCP 1.4
Video Bandwidth	4.95Gbps
Video Resolution	Up to 1080p@60Hz, 1920x1200@60Hz
Color Space	RGB_4:4:4, YCbCr_4:4:4, YCbCr_4:2:2
Color Depth	8-bit
Audio Formats	LPCM 2.0CH
Transmission Distance	100m/328ft for 1080p@60Hz over CAT6/6a cable
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Transmitter	Input: 1× HDMI IN [Type A, 19-pin female] 1× PC [USB-B, 4-pin female] Output: 1× HDMI OUT [Type A, 19-pin female] 1× CAT OUT [RJ45]
Receiver	Input: 1× CAT IN [RJ45] Output: 1× HDMI OUT [Type A, 19-pin female] 1× Keyboard [USB-A, 4-pin female] 1× Mouse [USB-A, 4-pin female]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	Transmitter / Receiver: 90mm [W] × 68mm [D] × 22mm [H]
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Operating Humidity	20%~80% relative humidity, non-condensing
Storage Humidity	10%~90% relative humidity, non-condensing
Weight	Transmitter: 167g; Receiver: 165g
Power Supply	DC 12V/1A
Power Consumption	PoC (TX->RX): 9.84W; PoC (RX->TX): 5.88W

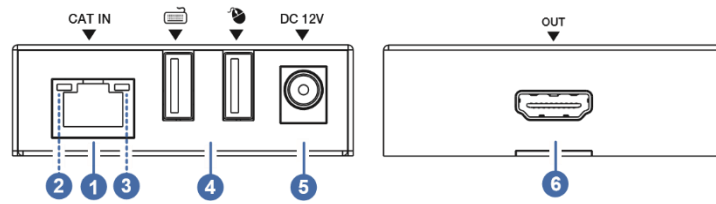
Operation Controls and Functions

Transmitter Panel



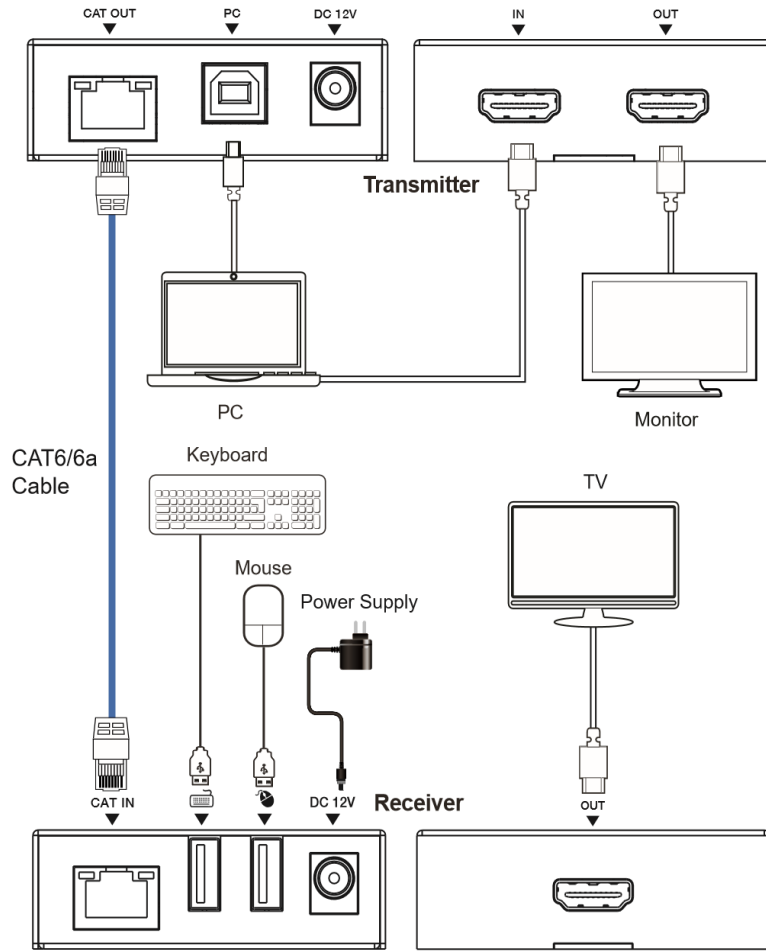
No.	Name	Function Description
1	CAT OUT	Connects to the CAT IN port on Receiver with CAT cable.
2	Left LED (Green)	HDMI signal indicator. It will be on when HDMI input signal is detected.
3	Right LED (Yellow)	Connection signal indicator. <ul style="list-style-type: none"> ▪ When TX and RX are connected and signal is transmitted, the LED will flash quickly. ▪ When TX and RX are connected but no signal is transmitted, the LED will flash slowly.
4	PC USB Host port	USB host port, connected to a PC.
5	DC 12V	DC 12V/1A power input port, supporting PoC function.
6	HDMI IN	HDMI signal input port, connected to HDMI source device such as DVD or computer host with HDMI cable.
7	HDMI OUT	HDMI signal loop output port, connected to an HDMI display device such as TV or monitor with HDMI cable.

Receiver Panel



No.	Name	Function Description
1	CAT IN	Connects to the CAT OUT port on Transmitter with CAT cable.
2	Left LED (Green)	HDMI signal indicator. It will be on when HDMI input signal is detected.
3	Right LED (Yellow)	Connection signal indicator. <ul style="list-style-type: none"> ▪ When TX and RX are connected and signal is transmitted, the LED will flash quickly. ▪ When TX and RX are connected but no signal is transmitted, the LED will flash slowly.
4	Keyboard & Mouse	Two USB-A device ports, connected to keyboard and mouse. Note: Please provide power from the Receiver, if a high-power keyboard such as backlit keyboard is connected.
5	DC 12V	DC 12V/1A power input port, supporting PoC function.
6	HDMI OUT	HDMI signal output port, connected to an HDMI display device such as TV or monitor with HDMI cable.

Application Example



HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

