



HDMI USB KVM CAT5e/6 Extender - 60m User's Guide



P/N: KVMHDExt

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Important Safety Notices

Please read safety instructions carefully before installation and operation.

- Please pay close attention to all warnings and hints for this device
- Do not expose this unit to rain, heavy moisture, or liquid
- Do not repair the device or open the enclosure without professional guidance to avoid electric shocks. Doing so may void your warranty
- Keep the product in a well-ventilated location to avoid damage from overheating

- Shut off power and make sure environment is safe before installation
- Do not plug the HDMI cables in/out when the device is in use to avoid cable damage. Make sure they are plugged into the correct ports
- Use the included DC5V power adapter only. Make sure the specification matches if using 3rd-party DC power adapters

Introduction

The HDMI USB KVM CAT5e/6 Extender - 60m extends HDMI and USB signals up to 60 meters (197ft) over a single CAT6 cable (50 meters with CAT5e).

Features

- Supports Full HD 1080p with nearly zero latency
- KVM extension with 2 USB ports to control the source device, such as a PC, at a remote location
- Transmitter (TX) is equipped with an HDMI output for a local HDMI display
- Power over Cable (PoC) allows one power adapter to power both the TX & RX units

Package Contents

- Transmitter (TX) unit (1pc)
- Receiver (RX) unit (1pc)
- Power adapter (1pc)
- USB Type-A to Type-A cable (1pc)
- User's guide (1pc)

Product Layout

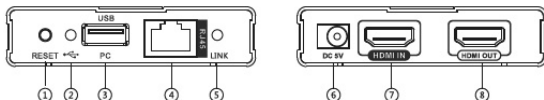


Figure 1: Transmitter (TX)

1	Reset Button	Press to reset the Transmitter (TX) unit
2	USB Indicator	Off: No PC connection
		Slow flashing: No USB device(s) detected on the RX unit
		On/Fast flashing: USB device(s) detected on the RX unit
3	USB Port	Connects to the computer's USB port
4	RJ45 Out	Connects to the Receiver's RJ45 port using a CAT cable
5	Link LED	On: HDMI source signal detected
		Flashing: No HDMI source signal detected
6	Power Jack	Connects to the included power adapter
7	HDMI IN	Connects to an HDMI source
8	HDMI Out	Connects to an HDMI display

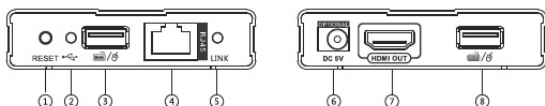


Figure 2: Receiver (RX)

1	Reset Button	Press to reset the Receiver (RX) unit
2	USB Indicator	Off: No power detected or RJ45 not linked properly to Transmitter (TX)
		On/ Fast flashing: USB device(s) detected
		Slow flashing: No PC connection or no USB device(s) detected
3	USB Port	Connects to keyboard or mouse
4	RJ45 In	Connects to the Transmitter's RJ45 port using a CAT cable
5	Link LED	On: HDMI source signal detected
		Flashing: No HDMI source signal detected
6	Power Jack	Connects to the included power adapter (optional)
7	HDMI Out	Connects to an HDMI display
8	USB Port	Connects to keyboard or mouse

Hardware Installation

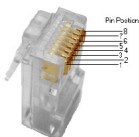
1. Power off all devices including your HDMI source and HDMI display(s).
2. Connect your HDMI source device to the Transmitter's HDMI In connector with an HDMI cable (HDMI cable not included).
3. Connect the Transmitter's USB port to the PC's USB port using the included USB Type-A to Type-A cable.

4. Optional: Connect an HDMI display to the Transmitter's HDMI out connector with an HDMI cable (HDMI cable not included) for local monitoring of the HDMI signal.
5. Plug your CAT5e/6 cable between the Transmitter's RJ45 Output and Receiver's RJ45 Input.
6. Connect your HDMI display to the Receiver's HDMI out connector with an HDMI cable (HDMI cable not included).
7. Plug your keyboard and mouse into the USB ports of the Receiver (RX) unit.
8. Plug the included power adapter into the Transmitter's power jack, then plug the power adapter into a reliable power source.
Note: The Receiver (RX) does not need a power adapter, it can be powered from the Transmitter (TX) over CAT cable with PoC technology.
9. Power on all connected devices.
10. The extender is ready for use.

CAT Cable Wiring

We suggest both RJ-45 connectors be wired identically following T568B wiring standard for the best performance and compatibility

Both connectors must be wired identically, to T568B standard.

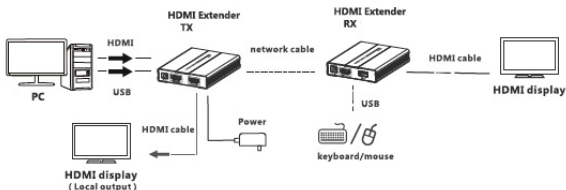


RJ45 Plug Colour Code (T568B)
Contact Side - Tab is on back

8	BROWN
7	WHITE / BROWN
6	GREEN
5	WHITE / BLUE
4	BLUE
3	WHITE / GREEN
2	ORANGE
1	WHITE / ORANGE

Note: You may use cat5e, cat6 UTP (cat6 preferred) in conjunction with the RJ45 output; however for best performance use cat6a or cat7 (particularly in electrically noisy environments). The maximum distances & transmission performance for HDMI and USB may be compromised by cable quality, patch panels, poor termination, wall plates, cable kinks and electrical interferences. Generally ensure the cat cable is solid copper core of 23AWG (avoid CCA type), in one straight run (avoid/minimise patches) and avoid close proximity to any noisy electrical sources.

Application Diagram



FAQ & Solutions

Q: There is no video output or video is not normal:

A: 1) Check all cable connections.
2) Press reset button on the Transmitter and Receiver units.

Q: The Link LED is flashing:

A: 1) Make sure the network cable follows the IEEE-T568B wiring standard.
2) Check whether TX has HDMI signal input.
3) Press the reset button on both TX & RX.

Q: The extender is not working properly:

A: 1) Please check the cable lengths below:
- HDMI cables: Up to 3 meters
- Network cables CAT6: Up to 60m; CAT5e: Up to 50 meters
2) Press the reset button on the TX/RX and reconnect.

Q: RX Link LED is on but there is no image:

A: 1) Press RX reset button to reset the unit.
2) Make sure the HDMI cable is firmly connected to the display.
3) Use a higher quality network cable.

Specifications

HDMI Compliance	HDMI 1.3
HDCP Compliance	HDCP 1.4
Resolution	720x576p@50Hz, 720x480p@60Hz, 1280x720p@60Hz, 1920x1080p@60Hz, 640x480p@60Hz, 800x600p@60Hz, 1024x768p@60Hz, 1280x800p@60Hz, 1280x1024p@60Hz, 1440x900p@60Hz, 1680x1050p@60Hz
Bandwidth	10.2 Gb/s
Input and Output TMDS Signal	0.5 - 1.5Vp-p (TMDS)
Input and Output DDC signal	5Vp-p (TTL)
Transmission Distance	CAT5e: 50 meters
	CAT6: 60 meters
Power Supply	5VDC / 2A
Power Consumption	TX: 2W
	RX: <2W
Operating Temperature	0 - 60 C
Storage Temperature	-10 - 70 C
Humidity	0 - 90%

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