
Quick Operation Guide

AR-40-104

4K HDMI Extender with KVM

The AR-40-104 is a great point-to-point HDMI KVM extender set for HDMI and USB signals; this kit supports 4K/UHD video@30 Hz, as well as HDMI data rates up to 10.2Gbps, HDCP 1.4 compliant; It provides HDMI transmission up to 393 feet (120m) for 1080p or 4K@30Hz over single CAT6 cable. It supports video resolution down-scaling, the 4K input can be automatically downscale to 1080p output for compatibility with 1080p display.

Features

- Supports HDMI 1.4, up to 4K@30Hz 4:4:4, HDCP 1.4.
 - Extends 1080p or 4K HDMI signal up to 393 feet (120m) over a single CAT6 cable.
 - Supports USB 1.1, and the USB extension is up to 393 feet (120m).
 - HDMI loop out on transmitter.
 - Supports down-scaling, the 4K input can be automatically degraded to 1080p output on receiver to compatible with the 1080p legacy devices.
 - Supports bi-directional 12V PoC, only one power supply required.
 - Compact design, easy to install and simple to operate.
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Packing List

- 1x Transmitter (Tx)
 - 1x Receiver (Rx)
 - 1x Power Adaptor (12V DC 1A)
 - 1x Quick Operation Guide
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Transmitter Panel Description



1. **HDMI OUT:** Connects to HDMI display device.
2. **HDMI IN:** Connects to HDMI source device.
3. **USB port** to connect source device (e.g. desktop) that needs to be controlled by USB devices at receiver end.
4. **DC 12V:** DC connector for the power adapter connection.
5. **RESET:** Press the button to reboot the transmitter.
6. **CAT:** RJ45 port to connect the CAT port of receiver by CAT6 cable. It supports 12V PoC to power the receiver.
7. **LINK:** Illuminates when there is a valid HDMI signal input.

Receiver Panel Description



1. **HDMI OUT:** Connects to HDMI display device.
2. **Two USB ports** to connect USB devices (e.g. Mouse, Keyboard) to control the source device (e.g. PC) at transmitter end.
3. **DC 12V:** DC connector for the power adapter connection.
4. **RESET:** Press the button to reboot the receiver.
5. **CAT:** RJ45 port to connect the CAT port of transmitter by CAT6 cable.
6. **LINK:** Illuminates when there is a valid HDMI signal output.

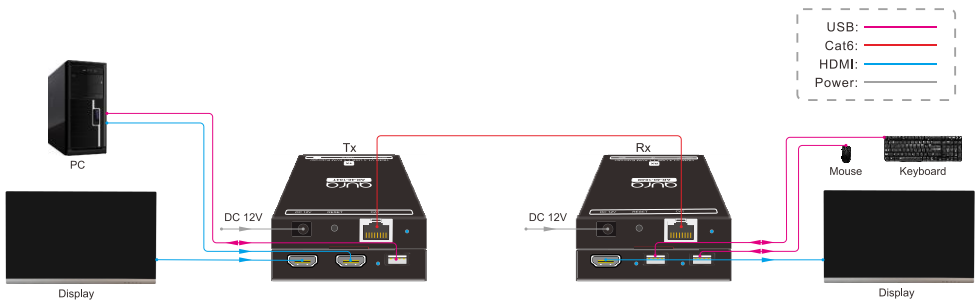
EDID Management

If the HDMI output of transmitter is connected to display device, the source device will automatically learn the EDID of the local display device, otherwise, the source device will invoke built-in EDID (4K@30Hz 4:4:4).

HDCP Handling

- If the source device has no HDCP content, both the TX HDMI loop out and RX HDMI out also has no HDCP content.
- The HDCP content of HDMI loop out on TX automatically follows the source device.
- The HDCP content of HDMI out on RX automatically follows the RX display device.

Connection Diagram



Resolution	CAT5e (FTP)	CAT6a (U/FTP)
1080p@60Hz	120m	120m
4K@30Hz	120m	120m

Specifications

Transmitter	
Input	(1) HDMI IN
Input Connector	(1) 19-pin type-A female HDMI
Output	(1) HDMI OUT, (1) CAT
Output Connector	(1) 19-pin type-A female HDMI, (1) RJ45
Control	(1) Type-A USB
Receiver	
Input	(1) CAT
Input Connector	(1) RJ45
Output	(1) HDMI OUT
Output Connector	(1) 19-pin type-A female HDMI
Control	(2) Type-A USB
General	
Video Resolution	Up to 4K@30Hz 4:4:4
HDMI Audio Format	Supports LPCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, DTS 2/5.1CH, DTS 96/245.1CH
HDMI Transmission Distance	Up to 393 feet (120m) (CAT6 FTP)
USB Extension	Up to 393 feet (120m) (CAT6 FTP)
HDMI Version	1.4
HDCP Version	1.4
USB Version	1.1
Power Supply	Input: 100 to 240V AC, 50/60Hz, Output: 12V DC 1A
Power Consumption	4.5w (Max)
Operation Temperature	-5 to +55°C (+23° to +131°F)
Storage Temperature	-25 to +70°C (-13° to +158°F)
Relative Humidity	10% to 90%, Non-condensing
Dimensions (W*H*D)	102mm x 16mm x 95mm (with mounting ears) 80mm x 16mm x 95mm (without mounting ears)
Net Weight	Tx/Rx: 200g

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