



HDMI 2.0b 18Gbps Single Fiber Extender



User Manual

VER 2.0

Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lighting strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Table of Contents

1. Introduciton.....	1
2. Features.....	1
3. Package Contents.....	1
4. Regulatory Compliance.....	1
5. Specifications.....	2 3
6. Operation Controls and Functions.....	3 4
6.1 Transmitter Panel.....	3
6.2 Receiver Box.....	4
7. LED Meanings.....	4
8. Connection Diagram.....	5
9. Power Adapter.....	6

1. Introduction

Using photoelectric processing technology, this product can transmit HDMI 2.0 signals over single fiber without compression. This enables common video extension installations to use high-quality fiber optic transmission technology. Its small size is convenient for installation.

2. Features

- Single fiber HMDI extender. 1 CAT6 cable to support PoC to power the other side.
- Support 18Gbps video bandwidth HDMI 2.0b, HDCP 2.2
- Video resolution up to 4K@60Hz 4:4:4
- Support 100m multi-mode OM3 fiber and CAT6 cable.
- Uncompressed video transmission with no latency delay
- Support HDR10 and HDR10+
- Audio formats support Dolby Atmos, TrueHD, Digital+, Digital; DTS X, HD Master Audio, HD High Resolution Audio, 5.1; PCM 2-8Ch
- Transmitter wall plate is available in both clear anodized and stainless steel

3. Package Contents

- 1 x HDMI Single Fiber Wall Plate Transmitter
- 1 x HDMI Single Fiber Box Receiver
- 1 x Mounting Bracket
- 1 x Power Adapter
- 1 x User Manual

4. Regulatory Compliance

- FCC
- CE
- WEE
- RoHS
- Reach



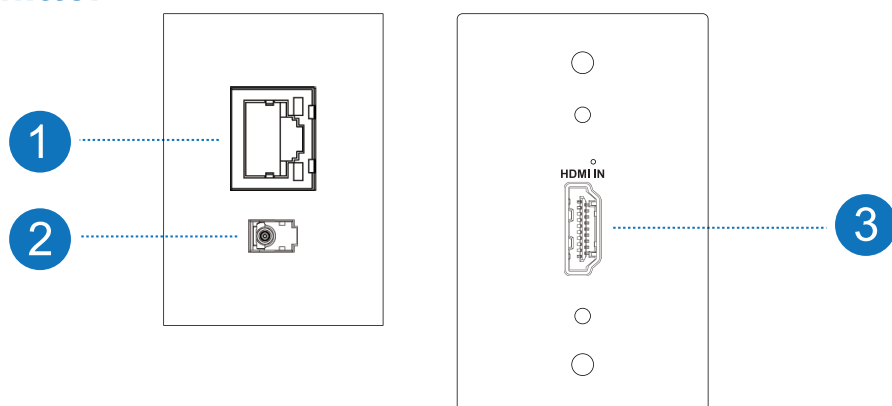
5. Specifications

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2 / 1.4
Video Bandwidth	18Gbps
Video Resolution	4096×2160@24/25/30/50/60Hz 3840×2160@24/25/30/50/60Hz 2048x1080p 1080p@23.98/24/25/29.97/30/50/59.94/60Hz 1080i@50/59.94/60Hz 720p@50/59.94/60Hz 576p, 576i, 480p, 480i
Color Space	RGB, YUV 4:4:4, YUV 4:2:2, YUV 4:2:0
Color Depth	8 / 10 / 12-bit
HDR	HDR10, HDR10+, Dolby Vision
HDMI Audio Formats	Dolby Atmos, TrueHD, Digital+, Digital; DTS X, HD Master Audio, HD High Resolution Audio, 5.1; PCM 2-8Ch
Transmission Distance	Max distance (4K): 300ft / 100m over OM3 multi-mode fiber 100m over CAT6
ESD Protection	Human body mode - ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Transmitter	Input: HDMI Type A Output: LC fiber Power In: RJ45
Receiver	Input: LC fiber Output: HDMI Type A Power In: 5V / 3A Power Out: RJ45

Mechanical	
Housing	Metal Enclosure
Color	White / Black
Product Dimensions	Transmitter: 66mm [L] x 70mm [W] x 114mm [H] Receiver: 76mm [L] x 55mm [W] x 21mm [H]
Package Dimensions	215mm [L] x 140mm [W] x 88mm [H]
Product Weight	Transmitter: 192g, Receiver:125g
Package Weight	650g
Power Supply	5V / 3A with US, UK, EU and AU plug
Power Consumption	Transmitter: 3Watt, Receiver: 3Watt
Operating Temp.	32 - 104°F / 0 - 40°C
Storage Temp.	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (No Condensation)

6. Operation Controls and Functions

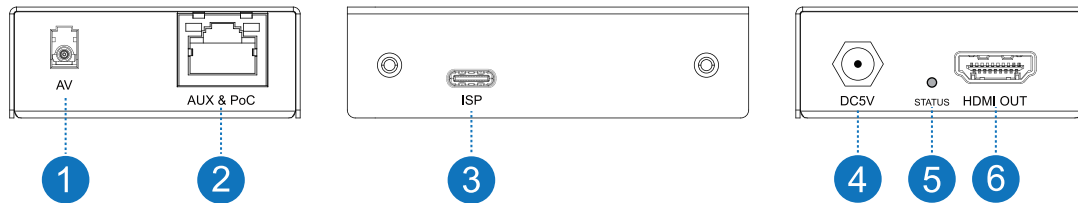
6.1 Transmitter



No.	Name	Function Description
1	AUX & PoC	CAT6 cable for power in and low speed communications.
2	AV (LC Fiber)	Multi-mode LC fiber for AV signal output. OM3 fiber can be used up to 100m.
3	HDMI IN	HDMI Type A input port

6. Operation Controls and Functions

6.2 Receiver

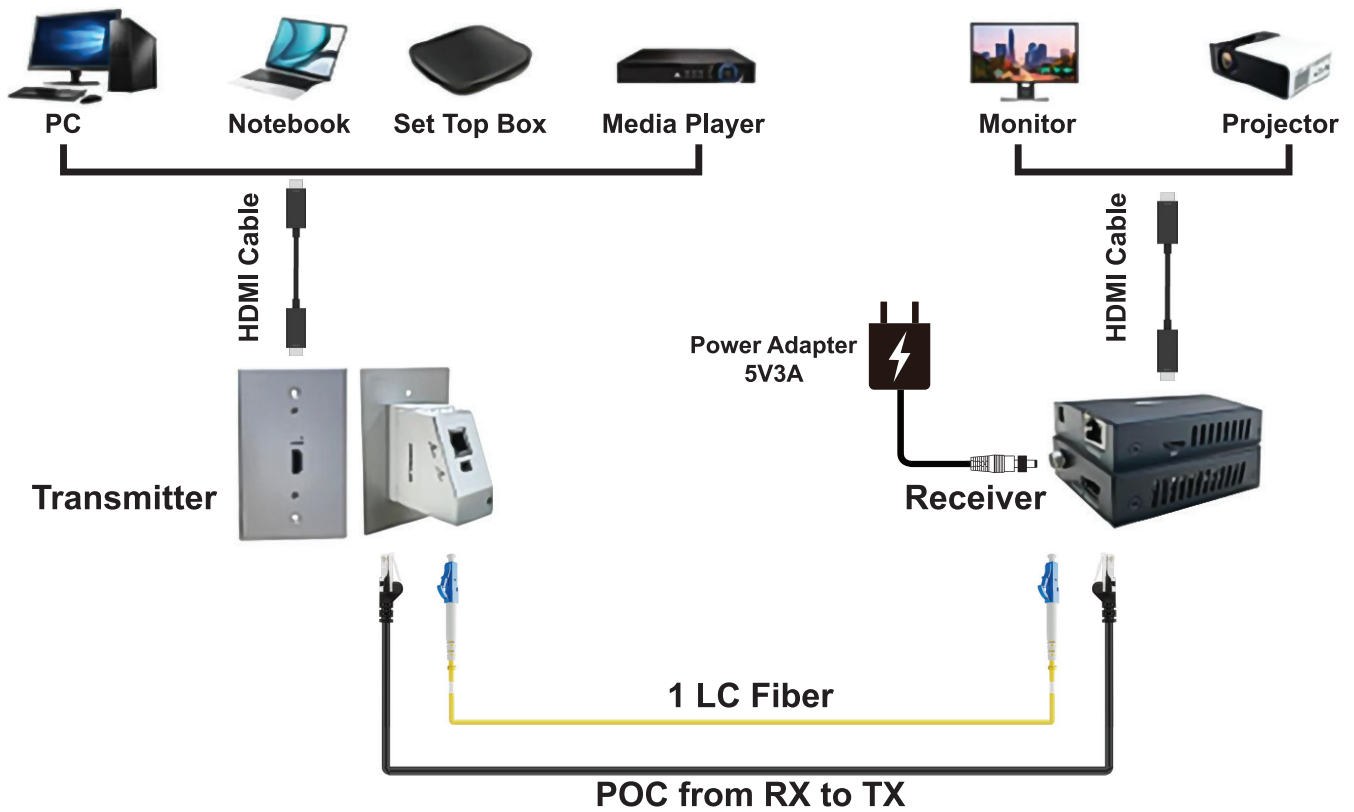


No.	Name	Function Description
1	AV (LC Fiber)	Multi-mode LC fiber for AV signal output. OM3 fiber can be used up to 100m.
2	AUX & PoC	Power Out and low speed communications.
3	Service Port	USB-C port used for firmware updates.
4	DC5V	Power input port
5	LED	HDMI signal status
6	HDMI OUT	HDMI Type A output port

7. LED Meanings

Tx LED Status	
Power On	Amber LED
Signal Detect	Green LED
Rx LED Status	
Power On	Amber LED
Signal Detect and Display Not Connected	Green LED Flashing
Signal Detect and Display Connected	Green LED

8. Connection Diagram



9. Power Adapter

EDAC

EDACPOWER ELEC.

Medical AC Adapter

Model: EM1019AVRS

AC Input: 100-240Vac, 0.8-0.4A, 50-60Hz

DC Output: 5V 3A

US







S/N:YYWWXXXXX







1312610190013

C1C3

Manufacturer:www.edac.com.tw

MADE IN CHINA

