

HDMI Fiber Optic Extender via 2 Multimode Fibers with LC Duplex Connector

Extends HDMI + RS232 + Audio Link up to 800 Meters



DESCRIPTION

Our optical extender enables HDMI, audio, and RS232 extension up to 800 meters over duplex multi-mode fibers (OM3). Applicable for server room PC and client terminal connection, our extender provides a high quality and uncompressed HDMI single link video transmission; also, additional RS232 and audio extension are achievable.

FEATURES

- Long distance HDMI, audio and RS232 extension up to 800 meters (OM3 Multimode Fiber)
- External hardware installation, plug and play. No extra driver or software required
- No RF interference by optical fiber cable
- Class 1 laser product complies with EN 60825-1

APPLICATIONS

- Remote monitor for medical, industrial, military control
- Far-end LCD monitor, projector, and plasma display connection
- Large video wall system
- Server room PC and client terminal connection

APPLICATION NOTE



ORDERING INFORMATION

PART NUMBER	PLUG FOR AC ADAPTER	Package includes:
HDMIR-TXRX-2LC-800	US Plug	<ul style="list-style-type: none"> • HDMIR-TX-2LC-80x (TX module) x 1 • HDMIR-RX-2LC-80x (RX module) x 1 • 5V adapter x 2 Optional: EU/BS/AU Plug converter of 5V adapter
HDMIR-TXRX-2LC-801	EU Plug	
HDMIR-TXRX-2LC-802	BS Plug	
HDMIR-TXRX-2LC-803	AU Plug	

** This product does not include optical fibers.

SPECIFICATION

PARAMETER	SPECIFICATION	NOTE
Max length	800 meters	600 meters for OM2
Max resolution	1920 x 1080, 1920 x 1200	60Hz, HDMI single link
EDID support	Pseudo EDID + Clone EDID	
Audio interface	3.5mm, Sampling rate >44.1 Kbps	
RS-232 Baud Rate	9600, 19200, 115200	
Operating voltage	TX: DC 5V / 970mA; RX: DC 5V / 970mA	
Optical connector	Duplex LC connector	
Recommended fiber	50/125 um multimode fiber	OM3
Operating temperature	0°C to 50°C	
Storage temperature	-20°C to 75°C	
Dimensions	TX unit: 180 x 120 x 30; RX unit: 180 x 120 x 30	L x W x H (mm)
Weight	TX: 600g; RX: 600g	

REQUIREMENTS

- HDMI PC or HDMI signal source (Transmitter)
- HDMI monitor or projector (Receiver)
- 100-240VAC 50-60Hz 0.6A electricity

ADAPTER SPECIFICATION

PARAMETER	SPECIFICATION	NOTE
Input	100-240VAC	US/EU/BS/AU plug
Output	DC 5V	3.0A
DC Jack	Inside 5V / Outside ground	

**INSTALLATION**

- Step 1.** Install TX box close to HDMI source, such as PC or NB.
- Step 2.** Install RX box close to HDMI sink, such as HDMI monitor.
- Step 3.** Connect HDMI cable from TX box to Source, and RX box to Sink.
- Step 4.** Connect TX box and RX box through optical fiber cable (2LC).
- Step 5.** Apply 5V adaptor power to TX box and RX box.

Notes:

- (1) Clean fiber connector before plugging in. The dust will impact fiber communication performance.
- (2) The length of HDMI cable should be NOT longer than 2 meters.

SELF-EDID PROGRAMMING PROCEDURE

To avoid abnormal operation of self-EDID button, please follow the below steps:

Step 1. Connect TX to monitor with HDMI cable.

Step 2. Power on monitor and DO NOT power on TX.

Step 3. Press self-EDID button then power on TX, you will see LED quick flash 10 times to indicate enter EDID setting mode.

Step 4. LED off 3 seconds then enter instruction sample mode.

Step 5. LED will flash 5 times (on 1 second, off 1 second) to sample "button press count", button press time will decide next instruction.

Step 6. LED quick flash 10 times to indicate instruction sample mode ending.

Step 7. If button press count = 3, TX will perform clone EDID from monitor.

Step 8. If button press count = 5, TX will perform reset to default EDID.

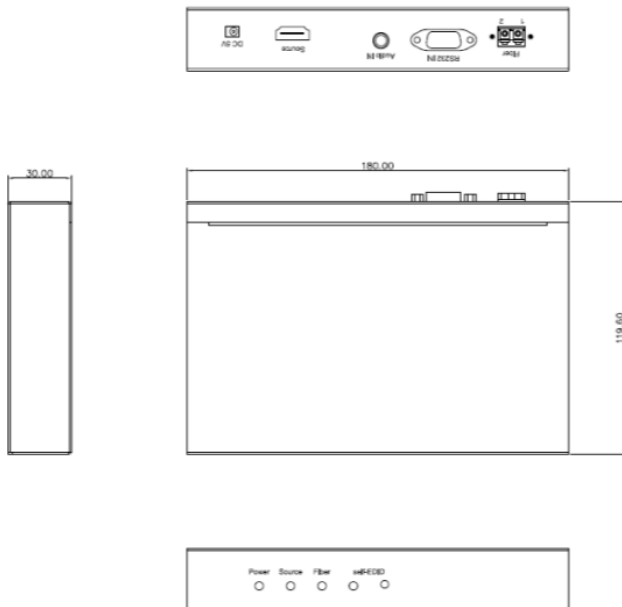
Notes:

- (1) In case you want to "reset to default EDID", press self-EDID button all time until (6).
- (2) In case you want to clone EDID, ensure (5) button press count = 3 then release button.

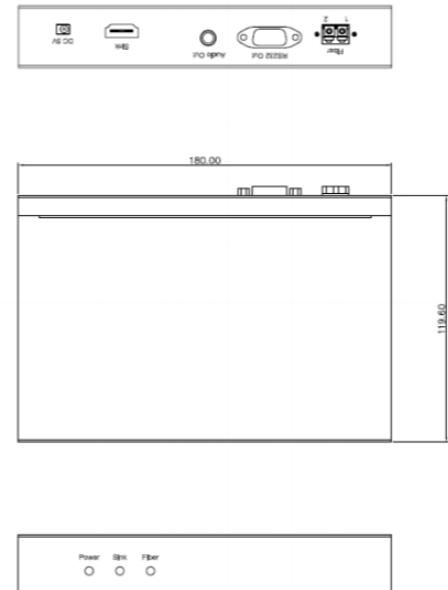
DIMENSIONS (unit: mm)

All dimensions are all in $\pm 0.3\text{mm}$ tolerance if not specified.

HDMIR-TX-2LC-80x (Transmitter)



HDMIR-RX-2LC-80x (Receiver)



SAFETY REGULATION

CE and FCC approved.



Note: The specifications subject to change without notice.



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