Description

HDMI (High-Definition Multimedia Interface) recently has become increasingly popular in the application of video and audio transmission system. In view of the extreme of electrical performances, however, the traditional copper wire cable imposes limits on signal transmission distance and signal quality. In reality, optical fiber is of low dispersion, which in turn has the strength of longer signal transmission distance and better signal transmission quality in comparison to the traditional copper wire cable. The item of HDMIE005 uses single fiber without any copper wire inside, where radio frequency interference phenomenon is literally ruled out, which shows the advantage of high performance and good signal quality as well as low cost.

HDMIE005

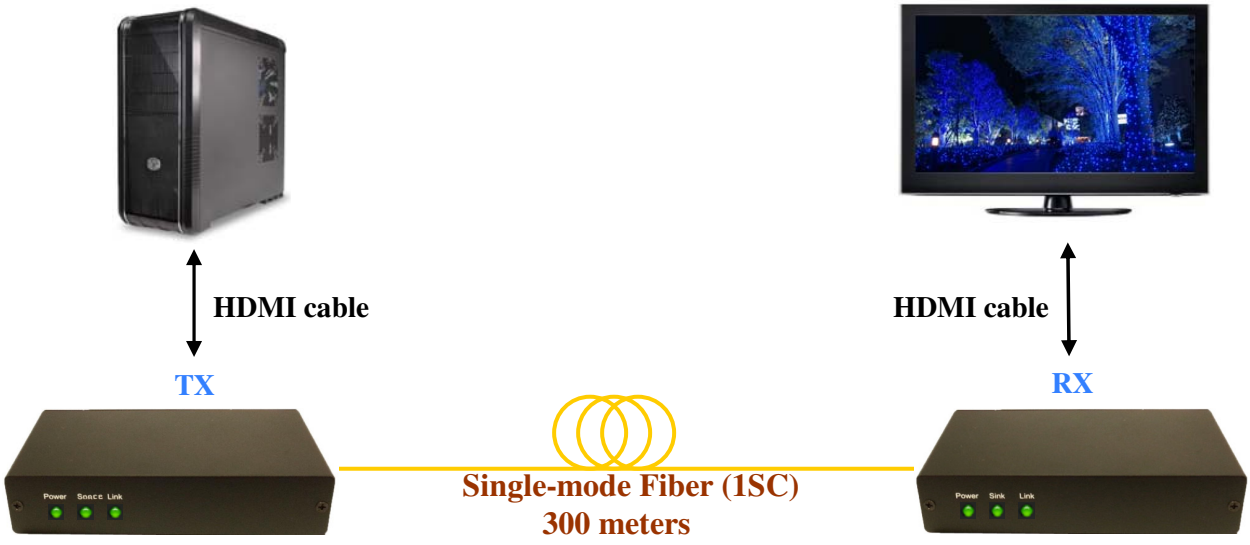
HDMI Extender over fiber via ONE SMF up to 300M

Features

- Extend digital HDTV data with HDCP up to 300m (990 feet).
- Comply with HDMI standard for support 3D and 4K2K .
- HDCP fully compliant without copper wire
- No RF interference by optical fiber
- Class 1 laser product complies with EN 60825-1

Application

- Remote monitor for traffic, industrial, military control
- LCD, Projector, Plasma display connection
- Large video wall system



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Ordering information

Part Number	
HDMIE005-XX	01: US Plug for AC adaptor 02: EU Plug for AC adaptor 03: UK Plug for AC adaptor 05: JP Plug for AC adaptor 06: AU Plug for AC adaptor

Package include

This product does not include optical fibers

- TX module × 1
- RX module × 1
- 5V adapter × 2

Optional：EU/UK/AU Plug converter of 5V adapter

Specification

PARAMETER	SPECIFICATION	NOTE
Max length	300M	
Max resolution	4096x2160	HDMI 1.4
Max video bandwidth	3.4 Gbps per channel	
HDCP compliant	YES	
CEC compliant	YES	
Optical connector	Single SC	
Recommended Fiber	9/125 um Single-mode fiber	
Optical property	1270nm/1330nm	
Optical Link Power Budget	+1.5 dB (min)	
Operating voltage	DC 5V	
Electrical Power consumption	TX: 3W RX: 3W	5V/600mA 5V/600mA
Operating Temperature	-10℃ to 50℃	
Storage Temperatute	-20℃ to 75℃	
Dimension	141 × 72.4 × 30	L × W × H (mm)
Weight	255g	TX unit or RX unit

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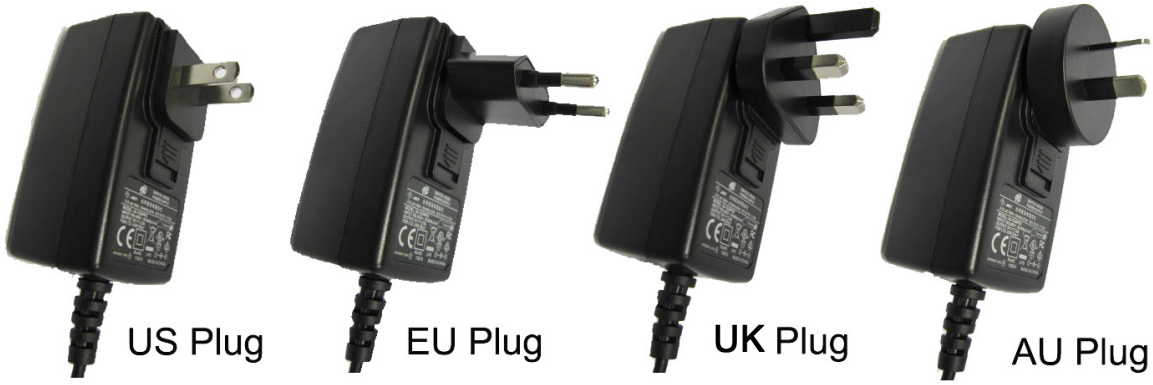
Requirements

- HDMI Source (DVD player or PC)
- HDMI Sink (LCD TV or Projector)
- 100~240VAC 50~60Hz 0.2A electricity

Adapter Specification

PARAMETER	SPECIFICATION	NOTE
Input	100~240VAC	US plug
Output	DC 5V	2.0 A
DC Jack	Inside 5V / Outside ground	



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HDCP compliant

HDCP (High-bandwidth Digital Content Protection) is one kind of copy protection by digital signal handshake. It is required for HDMI device. The Extender plays the role of a cable to communicate all of HDMI functions, such as all TMDS, DDC, CEC and HPD signal.

Installation

Step1. Put 'TX' module near to HDMI signal source, such as computers.

Step2. Put 'RX' module is near to HDMI sink, such as LCD TVs or Projectors.

Step3. Connect HDMI cable from TX to Source, and RX to Sink.

Step4. Plug in the optical fibers from TX to RX.

Step5. Apply 5V adaptor to TX/RX modules.

Note 1: Clean fiber connector before plugging in. The dust will impact fiber communication performance.

Note 2: The length of HDMI cable should be NOT longer than 2 meters.

Note 3: These four indicator in front of the modules represent linking status. These 3 LEDs blaze green if all setup is complete and correct. The left one stands for the connection of power. The second light stands for the connection of HDMI Sorce/Sink. The third light stands for the connection of fiber between the TX and RX module.

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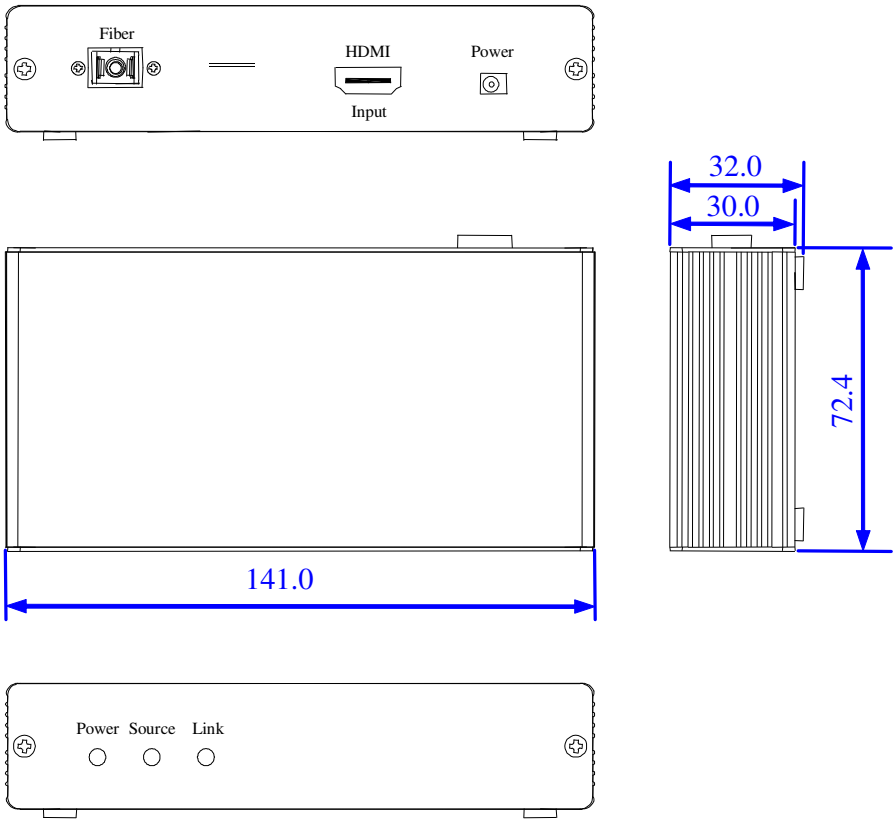
Dimensions



All dimensions all in +/- 0.3mm tolerance if no specified

Unit：mm

Safety Regulation

CE and FCC approved.

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