HDMI Extender via 2 multimode fibers
SC Duplex Connector
Extends HDMI Link up to 200 meters

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. APAC HDMI extender uses 2 cores 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.

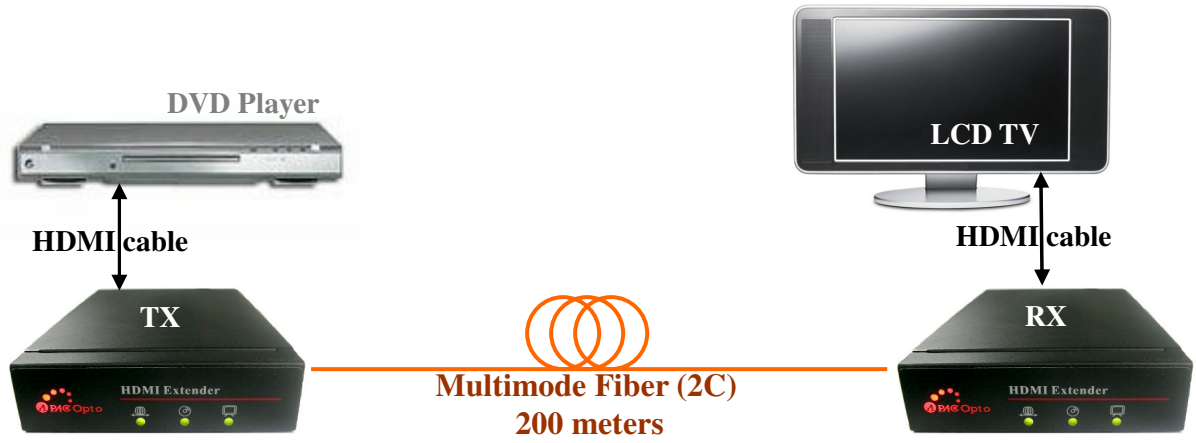
Features

- Extend digital HDTV data with HDCP up to 200m(660 feet).
- Comply with HDMI 1.3 standard for HDTV and HDCP communication.
- 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

Application Note



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Ordering information

Part Number
HDMI200-2SC-XX

00: US Plug for AC adaptor

01: EU Plug for AC adaptor

02: BS Plug for AC adaptor

This product does not include optical fibers

Package include

- TX module x 1
- RX module x 1
- 5V adapter x 2
- HDMI cable x 1

Optional：2nd HDMI cable、EU/BS/AU Plug converter of 5V adapter

Specification

PARAMETER	SPECIFICATION	NOTE
Max length	200M	
Max resolution	1920x1080p	Single link
Max video bandwidth	2.5 Gbps per channel	
HDCP compliant	YES	
CEC compliant	YES	
Optical connector	Duplex SC	
Recommended Fiber	62.5/125 or 50/125 um Multimode Fiber	
Optical property	850nm/1310nm/1550nm	
Optical Link Power Budget	10dB (min)	
Operating voltage	DC 5V	
Electrical Power consumption	TX: 3W	5V/600mA
	RX: 3W	5V/600mA
Operating Temperature	-10℃ to 50℃	
Storage Temperatute	-20℃ to 75℃	
Dimension	145 x 95 x 26	L x W x H (mm)
Weight	400g	TX unit or RX unit

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	1.0 A
DC Jack	Inside 5V / Outside ground	

US Plug

EU Plug

BS Plug

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 DVD players or 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 from RX to Sink.

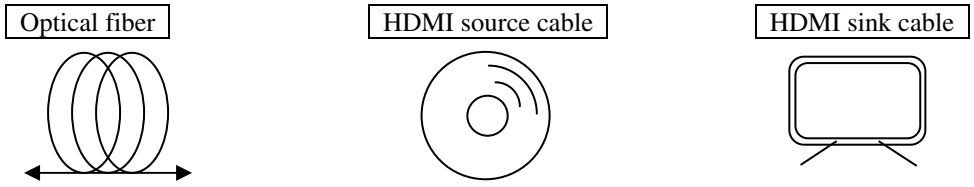
Step4. Plug in the optical fibers from TX to RX. Please pay attention to the indicative number if SC connector.

Step5. Plug in the 5V adapter to the electricity and TX/RX modules.

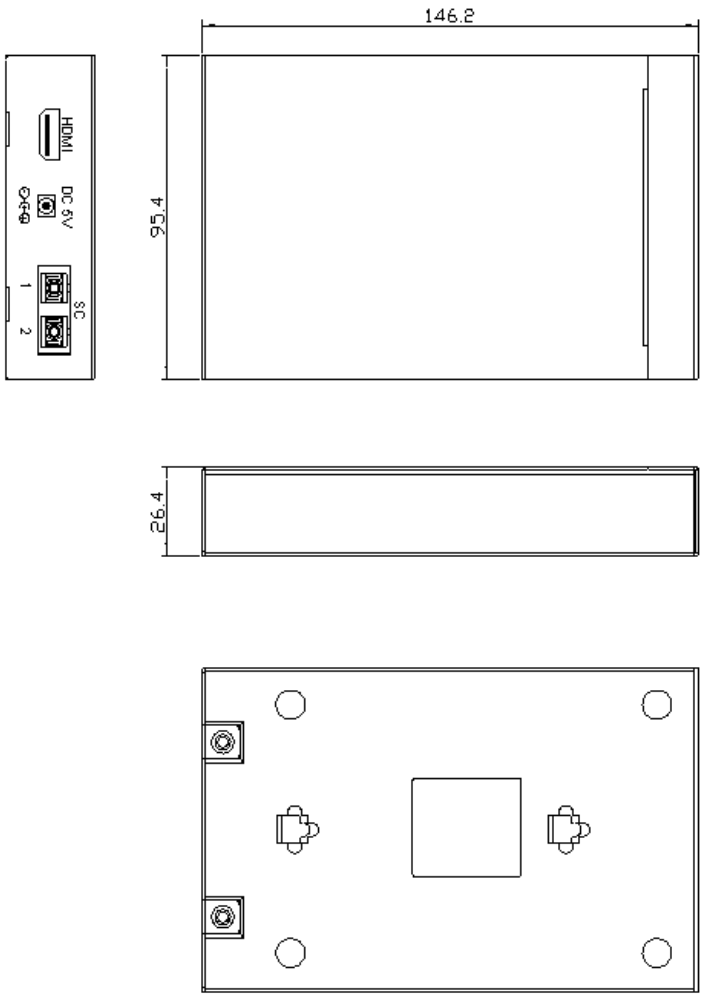
Note 1: Clean end face of fiber before plugging in. The dust will cause damage to the fiber.

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

Note 3: These three figures 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 fiber. The middle one stands for the connection of HDMI source. The right one stands for the connection of HDMI source.



Dimensions



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

Unit：mm

Safety Regulation

CE and FCC approved.