

CLR-HDMI-TX/RX

HDMI Fiber optical extender



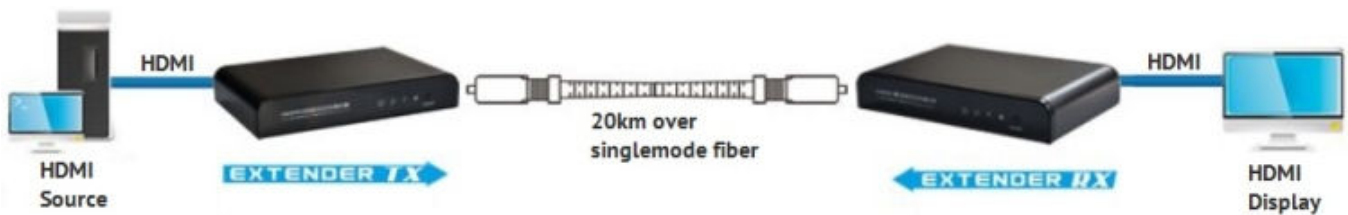
Overview

CLR-HDMI-TX/RX is a perfect solution to transmit high quality, 1080P HDMI video from HDMI sources like DVD Player, Blu-ray Player Set-top box, console systems or other video equipments, over single-strand (one core of fiber) fiber optical cable up to 20km. This easy to use, one pair (TX/RX) solution avoids the image mosaic and color distortion in the video which are caused by interference from RF sources such as cellular phones or lightning, and transmission failures in the line, as well. It also supports IR transmission function. There is no need to worry about surge protection, as fiber is insensitive to electrical effects.

Area of usage

- Long distance transmission of high quality HDMI video and audio.
- HDMI monitors in the shopping centers, hospitals, schools, etc.
- As a means of advertisement, like billboards, etc.
- TV seller shops
- CCTV, multimedia projects

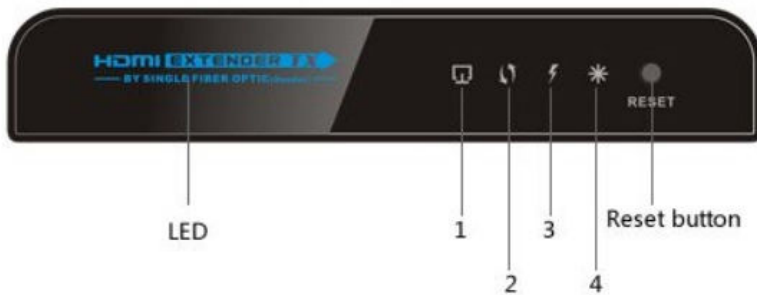
Applicaion Diagram



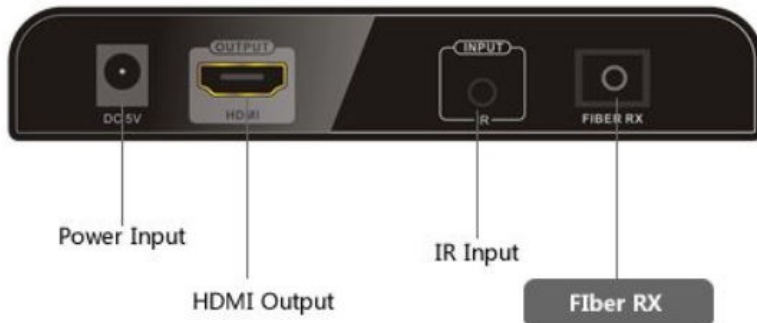
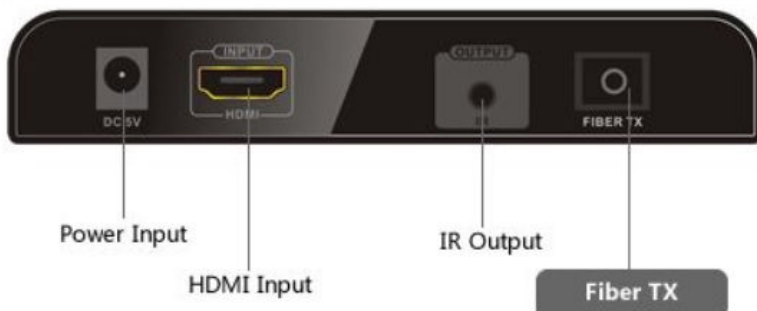
Features

- Supports full standard HDMI specifications
- Extends HDMI and IR signals over Fiber Optical infrastructure
- Long distance HDMI signal transmission up to 20 kilometers
- Single fiber connection
- SC fiber optic connector type
- Max transmission rate is 10.2Gbps
- Supported video color formats are 24bit/Deep color 30bit/Deep color 36bit
- Input HDMI resolution: 480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz
- Output HDMI resolution: 480p@60Hz, 576p@50Hz, 720p@50/60Hz, 1080p@50/60Hz

LEDs & Ports



- 1: Internet connection 2: Dual- way data transmission
 3: 100m Bandwidth 4: Fiber optic connection



Specifications

HDMI Functions

HDCP version	- HDCP1.2
Input HDMI Resolution	- 480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz
Output HDMI Resolution	- 480p@60Hz, 576p@50Hz, 720p@50/60Hz, 1080p@50/60Hz
Supported video color formats	- 24bit/Deep color 30bit/Deep color 36bit
Supported audio formats	- DTS-HD/Dolby-true HD/LPCM7.1/DTS/Dolby-AC3/DSD
Maksimum transmission Rate	- 14,880,950pps10.2Gbps
Audio signal transmission format	- L/R Stereo Audio
TMDS signal	- 0.5-1.5Vp-p (TDMS)
DDC signal	- 5Vp-p (TTL)
Input Cable Length	- ≤5m (AWG26 HDMI1.3 standard cable)
Output Cable Length	- ≤5m (AWG26 HDMI1.3 standard cable)

Transmission Medium

Interface medium	- Fiber Optical
Connector Type	- SC
Fiber Type	- Single mode fiber 0-20Km
Linked circuit loss	- ≤14dB
Output Power	- ≥-11dBm
Receive sensitivity	- ≤-32dBm

Environmental specs

Power voltage	- DC 5V
Power consumption	- ≤3.6W
Dimension	- 13 x 8.5 x 2.2cm
Weight	- 0.193Kg
Material	- Aluminium based

Ordering Information

CLR-HDMI-TX-20	HDMI to Fiber Optik Extender , SM , 20km , Single Fiber , SC TX
CLR-HDMI-RX-20	HDMI to Fiber Optik Extender , SM , 20km , Single Fiber , SC RX