



[4K-1ch HDMI fiber extender \(UN-compressed 3840*2160P@30HZ\)](#)

Product overview:

Model: HMDV-T/R1HDMI-4K

Name: 1 ch HDMI SFP slot fiber extender

Type: Standard

Size: 125 mm x 90mm x25mm

Weight: 1KG/pair

Description: The 4K-HDMI optical transceiver is composed of an HDMI transmitter and a receiver and transmits HDMI audio and video signals through a single-core single-mode optical fiber. In multimedia application systems, HDMI video signals, audio and video signals often need to be transmitted over long distances. However, when using ordinary cables for long-distance transmission, the output signal will always be poor and easily affected by interference. The displayed image will appear blurred, trailing, color separation and other phenomena. At the same time, the transmission distance is short. Multiple cables are needed to transmit these signals at the

same time, which cannot meet the long-distance transmission requirements for multimedia information release and other occasions. The use of HDMI optical transceivers for transmission completely solves such problems. The transmission distance is 0-10 kilometers. Optical transmission has the advantages of small attenuation, wide frequency bandwidth, strong anti-interference performance, high safety performance, small size, and light weight, so it has incomparable advantages in long-distance transmission and special environments. The application of HDMI optical transceiver equipment in multimedia systems can save construction costs and wiring complexity while ensuring high quality.

Product features

- ◆ Optical fiber transmission technology effectively eliminates electromagnetic interference and is suitable for application in complex on-site environments.
- ◆ Digital synchronous transmission technology, no signal fading, color shift and other problems.
- ◆ Single-fiber transmission technology uses only one core of the optical cable, saving costs and easy to install.
- ◆ Intelligently identifies and reconstructs the 2160P-HDMI signal format that complies with industry standards, plug and play.
- ◆ With optical link and HDMI signal detection and indication functions, it greatly facilitates project installation.
- ◆ Use DC-DC power conversion technology to effectively resist interference from the power environment.
- ◆ HDMI resolution: up to 3840 X 2160P@30HZ

Video features

Input interface: HDMI

Output level: 0.7Vp-p

Transmission direction: One-way transmission

Support video resolution:

•1920X1080P@60HZ

•3840 X 2160P@30HZ

Audio feature:

Transmission direction: One-way transmission

Input properties: 5Vp-p, unbalanced, impedance 2KOhms Output properties: 5Vp-p, unbalanced, impedance not higher than 200 Ohms

Fiber features

Interface: Standard LC 【10G optical module】

Wavelength: 1310nm, Single-mode Output optical power: 0-5dBm (Standard 10km)

Receiving sensitivity: better than 18dBm

Transmission direction: One-way transmission

Power supply: 5V2A

Operating temperature: -20°C - 50°C Humidity range: 0-95%, non-condensing

Storage temperature: -40°C - 80°C