

Optical module HDMI



Article Overview

HDMI optical modules transmit high-resolution HDMI signals over fiber optic cables, enabling long-distance, interference-free video and audio transmission.

Overview

HDMI optical modules, also known as HDMI over fiber extenders or optical transceivers, convert electrical HDMI signals into optical signals for transmission over fiber optic cables. This allows HDMI 2.0 or higher signals, including 4K UHD at 60Hz with 4:4:4 chroma, to be transmitted over distances ranging from hundreds of meters to several kilometers without signal degradation, electrical interference, or latency issues .

Key Features

- **High-Resolution Support:** Most modules support 4K UHD (4096x2160 / 3840x2160) at 60Hz, HDR, and full chroma sampling (4:4:4), ensuring pristine video quality .
- **Long-Distance Transmission:** Depending on the model, HDMI optical modules can transmit signals up to 300 meters over multimode fiber or 10 km over single-mode fiber .
- **HDMI Standards Compliance:** Modules typically support HDCP 2.2/2.3, EDID, and CEC, ensuring compatibility with a wide range of HDMI devices .
- **Additional Signal Support:** Many modules also carry audio, USB 2.0, IR, RS-232, and Ethernet signals, enabling control and peripheral connectivity over the same fiber link .
- **Electrical Isolation:** Fiber optic transmission provides immunity to RFI and EMI, ma...

Article Content

HDFX-500-TR | Opticis

HDMI 2.0 optical fiber detachable extender, HDFX-500-TR, extends HDMI 2.0 signal up to 300m (984feet) and transmits 4K UHD

AOC HDMI

HDMI-Glasfaserkabel bezwichnet werden. Die bei aktiven optischen HDMI Kabeln verwendete "Active-Optical-Technology" erlaubt

KABELBUDE Optisches HDMI Kabel, 4K, 20m HDMI Kabel

Produktbeschreibung 20 Meter Optisches 4K HDMI Kabel - Verlustfreie Übertragung für Ultra High Definition Multimedia Dieses

HDMI-OPTN-TX200AU2K | HDMI SDVoE Optical Extender

Discover the HDMI-OPTN-TX200AU2K, an SDVoE-based HDMI 2.0 optical transmitter supporting 4K UHD video,

4K HDMI Fiber Extender with SFP Module (LC Port) Mini Optical

4K HDMI Fiber Extender with SFP Module (LC Port) Mini Optical Transceiver Over Single Mode Optical Fiber Uncompressed No

Mini 4K HDMI Fiber Extender UHD 4K HDMI to Fiber Converter

Mini 4K HDMI Fiber Extender UHD 4K HDMI to Fiber Converter with SFP Module 1080P HDMI Video Over Fiber Optical Transceiver

Suchergebnis Auf Amazon Für: Hdmi Modul

PremiumCord HDMI Keystone-Modul Vergoldete Kontakte, HDMI Buchse auf Buchse - für FULL HD 1080p, 3D, Farbe Weiß 64 339€

HDMI To Optical Converter

HDMI To Optical Converter Upgrade your home entertainment system with an HDMI to Optical Converter. This handy device allows

Heidekabel: HDMI Module

Modulgröße: 4TE Optisches Aktiv-Kabel Die Signalrichtung ist von Buchse nach Stecker Halogenfrei

Suchergebnis Auf Amazon Für: Adapter Hdmi Auf Optisches Kabel

1-16 von 172 Ergebnissen oder Vorschlägen für "adapter hdmi auf optisches kabel" Ergebnisse Erfahre mehr über diese Ergebnisse.

Fletch Fiber System: Compact HDMI to Fiber Optic

We created the Fletch Fiber Module System to convert HDMI 2.1 signals into native OM3 MPO fiber, with

Optical module

An optical module is a typically hot-pluggable optical transceiver used in high-bandwidth data communications applications. Optical

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Suchergebnis Auf Amazon Für: Optisches Audiokabel Adapter

Lazmin112 HDMI-Audio-Extraktor, 4K 30 Hz HDMI auf Glasfaser 5.1 und 3,5 Mm Ausgang, Audio-Konverter-Adapter-Splitter mit

Convert HDMI To Optical With Ease: A Comprehensive Guide

Learn about HDMI to optical converters, their components, functionality, and benefits. Discover how to choose the

FeinTech Optisches HDMI Glasfaser-Hybrid Kabel 8K

Optisches Glasfaser Hybrid HDMI Kabel zur verlustfreien Übertragung von Ultra-HD Signalen mit bis zu 8K 60Hz über lange

DELOCK Keystone Modul, HDMI Buchse / Buchse | Keystone-Module

Keystone Modul, HDMI Buchse / Buchse Keystone-Module von DELOCK - Schnelle Lieferung günstige Preise Für Gewerbe und

691 4K60 4:2:0 HDMI MM/SM Fiber Optic Transmitter with USB

Supports deep color, x.v lor™, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, 2K, 4K, and 3D as

Mini Converters - Tech Specs | Blackmagic Design

Mini Converter HDMI to SDI 6G includes everything you need to convert from HDMI devices to SDI video in SD, HD and Ultra HD

Blackmagic Design Teranex Mini HDMI to Optical

The Teranex Mini HDMI to Optical 12G Converter from Blackmagic Design allows you to convert an HDMI signal to a 12G-SDI

Optical HDMI Cables

We offer a full range of fiber optic HDMI cables, including hybrid active optical and pure fiber optic options,

HDMI to Fiber

HDMI fiber converter leverage the optical modules to help convert audio/video HDMI signal and distal to

HDMI-module — T+A Engineering Emotion

HDMI modules We have developed a high-quality HDMI module that can be optionally inserted into various devices. It has two inputs

HDMI Optical Isolator Kit

The HDMI Optical Isolator (500462) allows HDMI equipment to be completely isolated and connected up to 984ft (300m), while

HDMI20-OPTJ-RX90 | HDMI Optical Extender

The HDMI20-OPTJ-TX90 and HDMI20-OPTJ-RX90 are HDMI 2.0 compatible optical fiber extenders. These units transfer

Optical vs. HDMI: Which Is Better For Audio?

HDMI offers distinct advantages over Optical connections, making it the better connection if you have the option

4K HDMI Optical Video Extender 10.2Gbps Mini HD

10G Optic Module The products with the 10G optical module, LC port, support transmission HDMI, RS232

What Is an Optical Module and Its FAQs (V200)

What Is an Optical Module and Its FAQs (V200) Describes what an optical module is and FAQs, including the fundamentals,

Contact Us

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