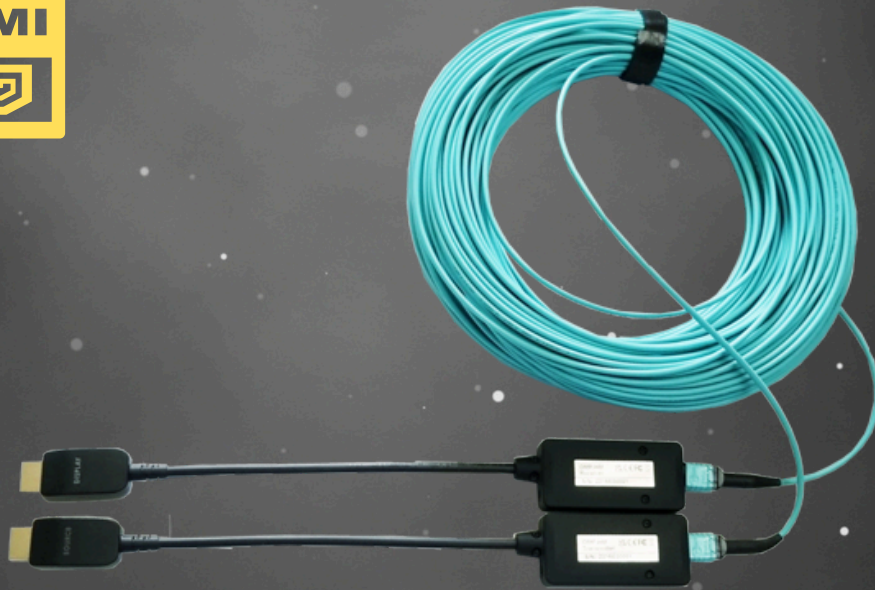




# OMP-HM

## HDMI 2.1 Extender



### OMP-HM

- Input and Output Signal: HDMI v2.1 Standard
- Video Bandwidth: 48 Gbps
- Dimension : 300L x 31W x 16H (mm)
- Optical Connector: MPO/MTP Type Connector (8core/Female)
- Electrical Connector: HDMI Type A Connector (Male)
- Applied Fiber: OM3 or OM4 Multi-mode Glass-fiber
- Maximum Supporting Resolution: 8K@60Hz with DSC, and 4K@120Hz
- Transmission Distance: 100 Meters (330 ft)

## High Speed / Long Range



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# OMP-HM: High-Performance HDMI Fiber Extender

## Unleash the Power of 8K Connectivity with the OMP-HM HDMI 2.1 Optical Fiber Extender

For environments demanding high-performance AV solutions, the OMP-HM HDMI 2.1 Optical Fiber Extender delivers flawless 8K UHD video transmission with zero signal loss over long distances. Engineered for precision and performance, the OMP-HM ensures crystal-clear visuals and reliable connectivity for professional AV installations.



### Exceptional Features for Enhanced Performance



#### High-Speed, Long-Distance Transmission

The OMP-HM leverages cutting-edge optical fiber technology to transmit 4K/8K UHD video signals up to 100 meters (330 ft) with zero degradation. Enjoy seamless, high-speed data flow with 48 Gbps bandwidth for immersive, ultra-high-definition visuals.



#### HDMI 2.1 Standard Compatibility

The OMP-HM fully complies with HDMI 2.1 standards, ensuring compatibility with the latest AV devices and displays.

#### Advanced Fiber Optic Technology

Equipped with OM3/OM4 multi-mode fiber and an 8-core MPO connector, the OMP-HM guarantees stable, interference-free transmission for mission-critical applications.



#### Comprehensive Signal Support

In addition to superior video transmission, the OMP-HM supports key signal functions, including:

- I2C Data for two-way communication between connected devices
- Hot Plug Detection (HPD) for fast and stable device recognition
- CEC Control, EDID, and HDCP for enhanced communication and content protection



#### Superior Signal Integrity with EMI Protection

By transmitting data over optical fiber, the OMP-HM eliminates electromagnetic interference (EMI), ensuring a stable and secure signal in demanding AV environments.



#### Certified for Safety and Compliance

The OMP-HM meets CE and FCC standards for safety and reliability, making it ideal for professional installations.





# Technical Specifications & Business Advantages

## Technical Specifications

- Input and Output Signal: HDMI v2.1 Standard
- Video Bandwidth: Up to 48 Gbps
- Connector Type: MPO/MTP (8-core) for optical connection (female); HDMI Type A (male) for electrical connection
- Fiber Type: OM3 or OM4 Multi-mode Glass Fiber
- Maximum Supporting Resolution: 8K@60Hz with DSC, and 4K@120Hz
- Transmission Distance: Up to 100 meters (330 ft)
- Power Supply: External DC Power Adapter (5V / 2A, 1.35ø DC JACK)
- Power Consumption: 0.75W (Transmitter) / 0.95W (Receiver)
- Operating Temperature Range: 0°C to 50°C
- Storage Temperature Range: -20°C to 70°C



## Why Choose the OMP-HM HDMI 2.1 Optical Fiber Extender?

### 1. Ultra-High-Definition 8K Visuals

The OMP-HM delivers stunning 8K UHD clarity for immersive visuals in professional AV environments

### 2. Reliable Long-Distance Performance

Enjoy flawless signal integrity with zero latency or image distortion over distances of up to 100 meters (330 ft)

### 3. Seamless Plug-and-Play Setup

The OMP-HM requires no additional software or drivers, ensuring fast and simple installation.

### 4. Built for Demanding AV Applications

From control rooms to conference centers and home theater systems, the OMP-HM excels in environments requiring top-tier video quality and reliability.

## Empower Your AV System with 8K Excellence

Upgrade your connectivity with the OMP-HM HDMI 2.1 Optical Fiber Extender and experience the power of ultra-high-definition video transmission without compromise. Contact us today to learn more!



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# HDMI 2.1 Optical Extender (MPO)



8K Ultra HD

4K Ultra HD

Full HD

SD



## OMP-HM (Pig Tail type)



OMP-HM is an HDMI 2.1 optical fiber extender that complies with the HDMI 2.1 standard and supports real 4K/8K UHD (4096x2160, 7680x4320) resolution. It enables transmission of high-quality 4K/8K resolution up to 100 meters (330ft) using optical multi-mode fiber (MPO type connector) without any video signal loss.

### Features



- High speed and long distance transmission by optical fiber
- Compatible with HDMI standard v2.1
- Supports OM3 (or OM4) fiber with 8 core MPO type connector
- I2C data and Hot Plug Detection signal is transmitted by optical fiber
- CEC control, EDID, and HDCCP □ EMI & Safety : CE, FCC



### Specification

	Transmitter	Receiver
Signal	HDMI v2.1	
Video Bandwidth	48 Gbps	
Supporting Resolution & Distance	8K@60Hz with DSC, and 4K@120Hz 100m (330ft)	
Receptacle/Fiber	HDMI 19 Pin/MPO/MTP	
Power Consumption	0.75W (typ)	0.95W (type)
Dimension	11.81" x .63" x 1.22", 300 x 16 x 31 (mm)	
Environment	Operating Temperature: 32°F~122°F (0°C~50°C) Storage Temperature Range: -4°F~158°F (-20°C~70°C)	

### Optical

- Optical Source: VCSEL laser
- O/E Converter: PIN photo diode
- Using fiber: 8 core (or 12 core) MPO/MTP fiber optical cable (OM3, polarity type A)

### Ordering Information

#### Package

- OMP-HM Transmitter (TX), Receiver (RX)
- (2) PS-M Power Adapters
- User Guide

#### Optional

- OPM38CMP-XXXM MPO cable, XXX = lengths of 10-100M
- PS-M2 Medical Power Supply Adapter and Cord
- CAB5103 cable to FSN monitor 5V power out

### Application

