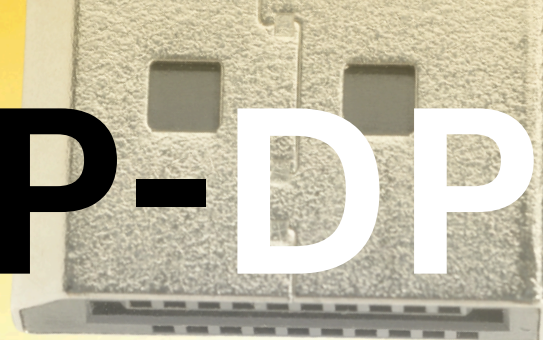




# OMP-DP



DisplayPort Extender



## OMP-DP

- High speed and long range transmission by optical fiber
- Compatible with DisplayPort standard 1.2/1.4
- Supports 8K@60Hz with DSC, and 4K@120Hz
- Supports OM3 (or OM4) fiber with 8ch MPO/MTP type connector
- Main-link video signal / AUX data and hot plug detection signal is transmitted by optical fiber
- DPCD (DisplayPort Configuration Data) compliant
- EMI & Safety : CE, FCC

# WITH IN YOUR REACH



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# OMP-DP: High-Performance DP Fiber Extender

## Unleash the Full Potential of Ophit's 8K Display Connectivity

In today's demanding AV environments, achieving exceptional image quality over long distances is critical. The Ophit OMP-DP DisplayPort Fiber Extender delivers uncompromised 8K UHD video transmission with zero signal loss, ensuring seamless performance in professional AV applications. Whether for medical imaging, broadcasting, or command centers, the OMP-DP is the ultimate solution for high-resolution connectivity.

## Key Features & Benefits Uncompromised 8K UHD Video Transmission



- Supports **8K (7680×4320) and 4K (4096×2160) resolutions** for stunning image quality.
- Compliant with **DisplayPort 1.2/1.4** standards for seamless compatibility.

## Long-Distance Connectivity Without Signal Loss

- Transmits DisplayPort signals up to **200 meters (656 feet)** over **optical multi-mode fiber (MPO/MTP connectors) (MST, SST)**.
- Optical fiber ensures **zero electromagnetic interference (EMI)** and maintains image integrity.

## Reliable and Compact Design



- Lightweight, durable, and easy to install for **permanent or mobile AV setups**.
- Plug-and-play installation with no software or driver requirements, streamlining deployment.



## Ideal for High-Demand Industries



- **Healthcare & Medical Imaging** – Ensures flawless transmission of critical diagnostic visuals.
- **Broadcast & Media Production** – Zero latency video delivery for live broadcasting.
- **Command & Control Centers** – Stable and secure signal transmission for mission-critical environments.
- **Corporate & Digital Signage** – Crisp, high-definition visuals across large displays.





# Technical Specifications & Business Advantages

## Technical Specifications

Specification	Details
Resolution Support	Up to <b>8K UHD (7680×4320)</b> and <b>4K UHD (4096×2160)</b>
Standard Compliance	DisplayPort <b>1.2/1.4</b>
Transmission Distance	Up to <b>200m (656 ft)</b> , (MST, SST)
Connector Type	Optical multi-mode fiber with <b>MPO/MTP connectors</b>
EMI Protection	Yes (Optical transmission eliminates interference)
Installation	Plug-and-play, no software required
Power Supply	External DC power adapter
Operating Temperature	32°F – 122°C



## Why Choose OMP-DP for Your Business?

### 1. Seamless Integration with Your AV Ecosystem

Designed to work with **existing DisplayPort setups**, making upgrades simple and cost-effective.

### 2. Future-Proof Your Investment

Supports **the latest display standards**, ensuring longevity and scalability for evolving display technologies.

### 3. Reliability and Performance You Can Trust

With **zero latency and no signal degradation**, businesses can trust the OMP-DP for **crystal-clear video transmission** in essential installations.

### 4. Comprehensive Support

Ophit's dedicated technical team is committed to providing expert guidance for a smooth, hassle-free deployment.



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# Optical DisplayPort 1.4 Extender (MPO/MTP)



## OMP-DP (Pig Tail type)

OMP-DP is an optical fiber extender which DisplayPort 1.2/1.4 standard. It supports real 4K/8K UHD (4096x2160, 7680x4320) resolution. The OMP-DP transmits up to 200m (656ft) using optical multimode (50/125um) fiber (with MPO/MTP type connector) without any video signal loss.

### Features

- High-speed and long distance transmission by optical fiber
- Compatible with DisplayPort standard 1.2/1.4
- Supports 8K@60hz with DSC, and 4K@120Hz
- Supports OM3 (or OM4) Fiber with 8 core MPO/MTP type connector
- Main-link video signal/AUX data and hot plug detection signal is transmitted by optical fiber
- DPCD (DisplayPort Configuration Data) compliant
- EMI & Safety: CE, FCC

### Specification

	Transmitter	Receiver
Signal	DisplayPort 1.2/1.4	
Video Bandwidth	32.4Gbps	
Supporting Resolution & Distance	4K/8K (up to 7680x4320 HBR3(8.1Gbps)) 200m (656ft)	
Receptacle/Fiber	DisplayPort 20 Pin/MPO/MTP	
Power Consumption	0.2W (max self power)	0.55W (type ext)
Dimension	11.81" x .63" x 1.22", 300 x 16 x 31 (mm)	
Environment	Operating Temperature Range: 32°F~122°F Storage Temperature Range: -4°F~158°C	

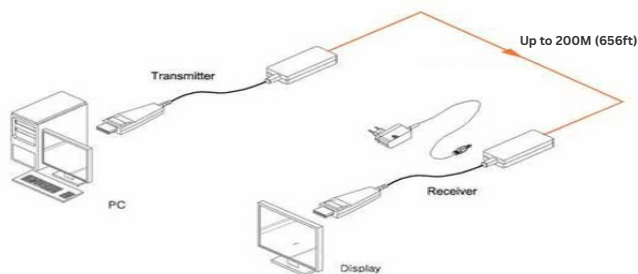
### Optical

- Optical Source: VCSEL laser
- O/E Converter: PIN photo diode
- Using fiber: 8 core (or 12 core)  
MPO/MTP fiber optical cable, (MST, SST)  
(50/125um, OM3, polarity type B)

### Package

- Transmitter, Receiver
- Power Adapter 1ea
- User manual

### Application



### Ordering Information

**OMP-DP**

Model name

•OMP-DP Tx/Rx and PS-M set

