



# OMB-DP

DisplayPort

## Extender



### OMB-DP

- Signal: DisplayPort 1.2/1.4
- Video Bandwidth: 32.4 Gbps
- Resolution: 4K/8K UHD (up to 7680x4320, HBR3)
- Distance: 200M (656ft)
- Connector/Fiber: DisplayPort 20 Pin/MPO/MTP



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# OMB-DP: High-Performance DP Fiber Extender

## Unleash the Full Potential of 8K Display Connectivity

In today's fast-paced, high-resolution display environments, signal integrity and transmission distance are critical. The Ophit **OMB-DP** DisplayPort Fiber Extender is designed for professional AV applications, providing **lossless, ultra-high-resolution** video transmission over long distances. Whether for **broadcasting, medical imaging, command centers, or commercial display solutions**, the OMB-DP ensures superior performance and reliability.

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



- Supports **8K (7680x4320) and 4K (4096x2160) 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)**.
- 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 operation with **no software or driver installation required**.

### Ideal for High-Demand Industries



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



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# Technical Specifications & Business Advantages

## Technical Specifications

Specification	Details
<b>Resolution Support</b>	Up to <b>8K UHD (7680x4320)</b> and <b>4K UHD (4096x2160)</b>
<b>Standard Compliance</b>	DisplayPort 1.2/1.4
<b>Transmission Distance</b>	Up to <b>200m (656 ft)</b> , (MST/SST)
<b>Connector Type</b>	Optical multi-mode fiber with <b>MPO/MTP connectors</b>
<b>EMI Protection</b>	Yes (Optical transmission eliminates interference)
<b>Installation</b>	Plug-and-play, no software required
<b>Power Supply</b>	External DC power adapter
<b>Operating Temperature</b>	0°C – 50°C



## Why Choose OMB-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 depend on **crystal-clear video transmission** in critical applications.

### 4. Dedicated Support & Expertise

Ophit's technical team provides **comprehensive support**, ensuring a smooth and hassle-free deployment.



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# Optical DisplayPort 1.4 Extender (MPO/MTP)



## OMB-DP (Standalone Type)

OMB-DP is a DisplayPort optical fiber extender that complies with DisplayPort 1.2/1.4 standard and supports real 4K/8K UHD (4096x2160, 7680x4320) resolutions.

It transmits high-quality 4K/8K resolutions up to 200 meters (656ft) by using optical multimode (50/125um) fiber without any video signal loss.

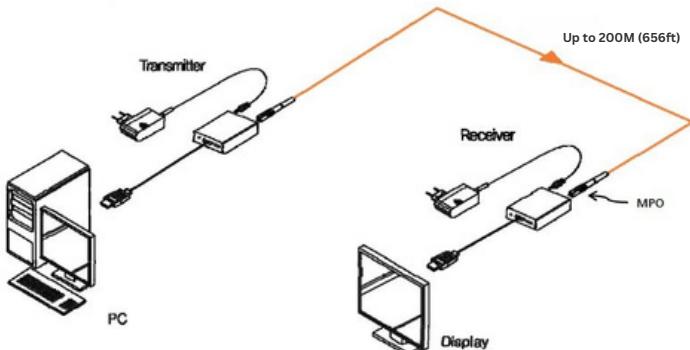
### Features

- High-speed and long distance transmission by optical fiber
- Compatible with DisplayPort standard 1.2/1.4
- Supports 4K@120Hz resolution,
- Supports OM3 Fiber with 8 core MPO/MTP type connector, (MST/SST)
- Main-link video signal/AUX data and Hot Plug Detection signal is transmitted by optical fiber
- DPCD(DisplayPort Configuration Data) compliant
- 19" rack mountable design
- EMI & Safety: CE, FCC

### Specification

	Transmitter	Receiver
Signal	DisplayPort 1.2/1.4	
Video Bandwidth	32.4 Gbps	
Supporting Resolution & Distance	4K/8K (up to 7680x4320 HBR3(8.1Gbps)) 200m (656ft)	
Receptacle/Fiber	DisplayPort 20 Pin/MPO/MTP	
Power Consumption	0.9W (Typ, ext)	0.45W (Typ, ext)
Dimension	69.0x21.1x36.8mm, 2.7"xx.83"x1.5" (WxHxD)	
Environment	Operating Temperature Range: 0°C~50°C Storage Temperature Range: -20°C~70°C	

### Application



### Optical

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

### Package

- Transmitter, Receiver
- DisplayPort cable 2ea
- Power Adapter 2ea
- User manual

### Ordering Information

**OMB-DP-x**

Model name

- OMB-DP-M, OMB-DP Tx/Rx and PS-M set



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