



OWM-DP

Fiber Optical Extender

True DisplayPort 2.1



Massive Scale. Zero Compromise.



NDAA Section 889

high-end gaming, simulation, visualization, digital signage, professional AV, and other high-performance applications

- Up to 8K 7680 x 4320 @60Hz with DSC; 4K 3840 x 2160 @240/120/60Hz
- SC, 1 core, OM4 multimode fiber
- Aux and Hot Plug channels
- Video Bandwidth: 40 Gbps
- Max distance: 656ft | 200m
- DPCD/HDCP compliant
- **Powered rackmount (19RM-005)**



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PRODUCT PAGE

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DP 2.1 Optical Extender (SC)



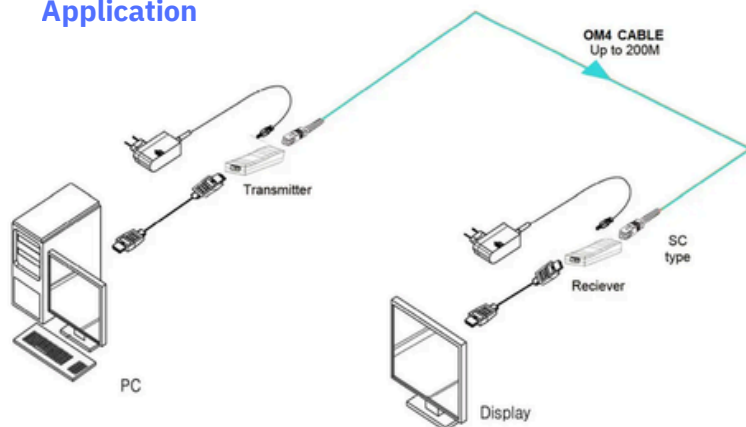
Regulatory & Compliance

- **EMC Certifications:** CE, UKCA, FCC Class B (47CFR part 15), ICES-003 Issue 7, RCM (AS/NZS CISPR 32)
- **Laser Safety:** Evaluated to IEC 60825-1:2014, EN 60825-1:2014+A11:2021, and EN 50689:2021 (Consumer Laser Product Safety)
- **Environmental:** RoHS Compliant (EU 2015/863, 2011/65/EU) and China RoHS2 (GB/T 39560)
- EMC, RoHS, DPCD, HDCP compliant

Specification

	Transmitter	Receiver
Signal Video	DP 2.1	
Bandwidth Supporting	40 Gbps	
Resolution & Distance	Up to 8K 7640 x 4320 @60Hz with DSC; 4K 3840 x 2160 @240/120/60Hz	
Receptacle/Fiber	656ft / 200m SC, 1core, OM4 multilmode fiber	
Power Consumption	1.55W (typ)	1.03W (type)
Dimension Environment	3"L x 1.46"W x .73"H / 76.22L x 37.00W x 18.40H (mm)	
	Operating Temperature: 32°F~122°F, 0°C~50°C Storage Temperature Range: -4°F~158°F, -20°C~70°C	

Application



OWM-DP (Box type)

OWM-DP is a DisplayPort 2.1 optical fiber extender-up to 8K 7640 x 4320 @60Hz with DSC; 4K 3840 x 2160 @240/120/60Hz resolutions. It enables high-quality video transmission up to 200 meters / 656ft using a single-core OM4 multimode optical fiber without video signal degradation. With 40 Gbps bandwidth and support for DPCD, HDCP, AUX, and Hot Plug channels, the OWM-DP delivers reliable high-performance DisplayPort connectivity for demanding professional and gaming applications.

Optical

- **Optical Source:** VCSEL Laser
- **O/E Converter:** Integrated Multi-channel PIN Photo Diode Array
- **Fiber:** SC, 1core, OM4 Multilmode fiber



Ordering Information

Package

- OWM-DP Transmitter (TX), Receiver (RX)
- (2) PS-M Power Adapters
- (2) UHBR 10 plug to plug DP 1M cables
- User Guide

Optional

- 19RM-005 Powered Rack Mount with power redundancy (holds 8 devices)
- FOP-SC-XXXXM - SC Fiber (XXX = Length)



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MPN: OWM-DP

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