



DisplayPort Extender over Single SC Fiber Optic Cable



Model #: FO-DP-300-EMI



WQXGA
2560x1600

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Section 1: General Description

Avenview FO-DP-300-EMI, DisplayPort Extender over Single SC Fiber Optic is designed to let digital flat panel display extend around 300meters away from host based on DisplayPort-1.1a standard by optical transmission technology. Its small package and transmit up to four video and one low-speed lane, while simultaneously receiving one low-speed signal, all on one multimode fiber.

- Long distance transmission of digital graphic signal corresponding to ANSI8B/10B around 300 meter (1,000ft) by multi-mode one fiber. (*Transmission distance may change in the future)
- ANSI8B/10B video signal and AUX data is transmitted by 1 channel multimode optical fiber
- Maximum Supporting resolution – WQXGA (2560x1600)
- Supports DPCP & HDCP by AUX channel
- Small size for insertion into internal system
- Optional external power supply for Transmitter.

Section 2: Specification

Item	Description	
Units	FO-DP-300-EMI (Transmitter)	FO-DP-300-EMI (Receiver)
Unit Description	DisplayPort Extender Transmitter	DisplayPort Extender Receiver
Input Signal	DisplayPort Signal v1.1a	
Output Signal	DisplayPort Signal v1.1a	
Video Bandwidth	3.5Gbps / Channel	
Supported Resolution & Distance *	WQXGA 2560 x 1600 @ 300 meters (1000 feet) *	
Optical Converter	850nm, 4Ch Transmit OSA 911nm, 1Ch VCSEL 980nm, 1Ch PIN P/D Diode	850nm, 4Ch Receive OSA 911nm, 1Ch VCSEL 980nm, 1Ch PIN P/D Diode
Electrical Connector	20 Pin DisplayPort Plug	
Optical Connector	1 SC Connector	
Fiber Type	50/125 μm Multi-mode glass fiber	
Dimensions (L x W x H)*	2.91" x 1.30" x 0.45"	
Power Supply	5V 2A DC	
Power Consumption	1.5W (max)	
Environmental		
Operating Temperature	32° ~ 104°F (0° to 40°C)	
Storage Temperature	-4° ~ 140°F (-20° ~ 60°C)	
Relative Humidity	20~90% RH (no condensation)	



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