

Industrial Unmanaged Ethernet Switch / FO Converter

(Star and Daisy-Chain Fiber Optic Networks)

Part Number: USW-1206-FO

Single-Mode (25miles/40km) or Multi-Mode (1.2miles/2km)

Connector types: ST, SC or FC



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INTRODUCTION

The USW-1206-FO is a rugged, fan-less, industrial-grade, unmanaged 10/100M Ethernet switch and fiber optic media converter that supports daisy-chain and star fiber optic links. The USW-1206-FO supports up to 255 fiber nodes, and each fiber node can extend the 10/100M Ethernet's distance to 25 miles (40km) for single-mode converters and cables, or 1.2 miles (2km) for multi-mode converters and cables. The unit features redundant power supplies and power failure alarm relay outputs for uninterrupted system performance and easy maintenance. The USW-1206-FO features 4 unmanaged 10/100M Ethernet ports and 2 full-duplex optical fiber ports and it runs on a light-speed fiber backbone inherently resistant to radio and electrical interference, such as EMI/RFI, transient surges and ground loops. It overcomes the limitations of a conventional point-to-point fiber network and dramatically expands the Ethernet network in terms of distance and flexibility. The USW-1206-FO is a plug and play unit featuring auto-negotiation for 10 or 100M data rates, it also supports MDI and MDI-X (auto-crossover), no DIP switch or jumper settings are required.

FEATURES

- Rugged industrial-grade 10/100M Unmanaged Ethernet Switch and Fiber Optic Media Converter.
- Daisy-chain and star fiber network expands the Ethernet data network dramatically.
- Designed for harsh industrial environments (DIN-Rail mounting, IP40).
- 4x RJ45 ports for 10/100M Ethernet (auto-negotiation).
- 2x full-duplex 100M Fiber Optic ports (ST, SC, or FC connectors).
- Supports up to 255 fiber nodes with ST, SC or FC fiber optic connectors.
- Plug and play, Auto-Negotiation, MDI and MDI-X auto-crossover.
- Full redundant power supply and power alarm relay output.
- Protects against ESD (15kV), overload current, reversed power polarity, and broadcast storm.
- Operating temperature: -40°F to 185°F (-40°C to 85°C).
- Surface Mount Technology manufactured to RoHS and ISO-9001 standards.
- Compliance: CE, FCC.
- 5-Year manufacturer's warranty.

SPECIFICATIONS

Compatibility:	IEEE802.3; IEEE802.3u; IEEE802.3x
Power Source:	12 to 48 VDC (redundant dual inputs; power alarm relay output)
Power Consumption:	<5W
Ethernet Port:	4x 10/100M Ethernet ports
Ethernet Switch Type:	Unmanaged/Layer 2
MAC Table:	1K
Protection:	Up to 15kV ESD; Overload current; Reversed power polarity;
	Broadcast storm
Wavelength:	1310nm
Usable Fiber Optic Cables:	Single-mode: 8.3/125, 8.7/125, 9/125, 10/125µm
	Multi-mode: 50/125, 62.5/125µm
Max. Number of Fiber Nodes:	255
Distance (Ethernet):	328ft (100m)
Distance (Fiber):	Single-mode: 25 miles (40km); Multi-mode: 1.2 miles (2km)
Connectors (Ethernet):	4x RJ45
Connectors (Fiber):	4x ST, 4x SC, or 4x FC connectors
Connectors (Power):	6-way terminal block (2x V1 power, 2x V2 power, 2x alarm)
Dimensions (H \times W \times D):	6.1x4.1x1.3 in (154x105x33 mm) – excluding FO connectors
IP Rating:	IP 40
Weight:	1 lb (450 g)
Operating Temperature:	-40°F to 185°F (-40°C to 85°C)
Operating Humidity:	5% to 95% Non-condensing



