

FOS 10 – MEDIA CONVERTER

blue wing

SIZE With its compact design (9.5 cm × 9.5 cm) virtually invisibly installable wherever you want

MANAGEMENT Dying Gasp; 802.3 OAM fault management; SNMP statistics retrieval; GUI-based operator management

SPEED Gigabit Ethernet WAN and LAN;
Dual speed fiber WAN uplink



THE PRODUCT

Gigabit Ethernet first mile fiber access for FTTH networks

The FOS 10 is used for FTTx access and provides a fiber-to-copper termination for customer premises. This media converter provides fiber optic bandwidth and link distance advantages to the existing network infrastructures with minimum upgrade expenses.

The FOS 10 Media Converter transforms 1000Base-T (Copper Gigabit) media to 1000Base-SX/LX (Fiber Gigabit) media and vice versa. The 1000Base-T port supports full-duplex Gigabit connection at wire speed through a single RJ45 LAN connector.

Single fiber WAN connection

Support for IEEE802.3ah OAM allows a single fiber to transport both downstream and upstream signals, as well as making the device easy to manage and troubleshoot.

By efficiently utilizing the fiber bandwidth, the costs for cabling, installation, and maintenance are greatly reduced.

Dual speed WAN port

Dual speed means that the media converter can handle both 100 and 1000 Mbps signal speeds on the fiber WAN port. The fiber signal is converted to an electrical signal on the copper interface, which operates at 10/100/1000 Mbps depending on the connected devices.

This functionality provides a low-cost integration option for migrating from 10/100 networks to Gigabit Ethernet to the Home (GTTH). GTTH switches can be connected to 10/100 networks without first upgrading the 10/100 side and allows the new equipment to be added gradually.

Fault Management

Support for IEEE802.3ah Dying Gasp allows devices to send a message when a power outage occurs. The dying gasp message ends the session and a new session will be started when power returns. This allows a suitable management system to recognize power outage events and to react accordingly.

Support for IEEE 802.3ah link fault management enables the following functionality:

- Discovery
- Link monitoring
- Remote fault detection
- SLAs through clear network demarcation point

SNMP statistics

The FOS 10 has a standard statistics MIB that allows retrieval of logged statistics data using SNMP.

Web GUI management

An easy-to-use GUI allows the operator to configure the FOS 10 quickly and efficiently.



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TECHNICAL DATA

Connectors supported

- Fiber interface: Integrated SC/UPC, 100Base-FX or 1000Base-X
- Copper interface: RJ-45, 10/100/1000Base-TX
- Supports Jumbo Frames
- Frame Size: 2048 Bytes (if not in Jumbo Frame Mode)
- Supports VLAN Tagging

Optical parameters

- Optical input power range: -10 dBm to +0 dBm
- Optical wavelength: Tx: 1310 nm; Rx: 1490 nm / 1550 nm
- Optical return loss: > 40 dB
- Optical power indication: < -10 dBm: Red color
- Optical power indication: > -10 dBm: Green color

Physical parameters

Power supply

- Nominal voltage: 12 V DC
- Input voltage range: 11 V to 15 V DC
- Input current: 125 mA typical
- Power consumption: 1.5 W

Casing

- Dimensions: 95 mm × 95 mm × 40 mm
- Weight: 100 g

Environmental conditions

- Operating temperature: -5°C to 60°C
- Storage temperature: -40°C to 85°C

Fault management

- IEEE 802.3ah dying gasp
- IEEE 802.3ah OAM

Regulatory compliance

- IEC 60950-1 first edition
- CB 60950-1 first edition
- EN 60825-1
- IEC 60825-1
- CB 60825-1
- RoHS and WEEE directives

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PURCHASE ORDER INFORMATION

| Product designation | Order number |
|------------------------|--------------|
| FOS 10 Media Converter | 900364 |