

OE1A Series Unmanaged O/E Converter

10/100Base Ethernet Fiber Media Concentrator

Description



This is a 10/100Base Ethernet to 100Base-FX fiber media converter designed for CPE applications when installed in or connection to the CH-11-x unmanaged media converter platform or in stand-alone point to point applications. The converter supports auto-negotiation on the copper Ethernet side as well as forced mode. With advanced features like LFP (Link Fault Pass-thru), FEF (Far-End Fault), Switch mode (store & forward, 1600 Bytes maximum frame size) or Converter mode (100/Full to 100/Full, low latency, 9K Bytes packet support), this media converter is targeted for customer premises equipment in metro LAN, campus, enterprise and FTTx applications. By offering simple DIP switch settings, this converter can provide complete control over all converter settings including duplex and speed configuration. This media converter is completely transparent to Layer 2 and Layer 3 protocols including IEEE 802.1q, VLAN tag, Q in Q, STP, IPX, IP, etc.

Features

- Auto-Cross over for MDI/MDIX in TP port
- Supports far end fault (FEF) function
- Auto-Negotiation or Manual mode in TP port
- Supports link fault pass through (LFP) function
- Support LED indicators
- Support Converter mode or switch mode function operation
- Packet lengths up to 1600 bytes in Switch mode, or the packet length is not limited in Converter mode



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General Specifications

Parameter	Symbol
Complies with	IEEE 802.3 10Base-T, 802.3u 100Base-TX and 100Base-FX standards
Temperature	0-50 °C (Operating)
	0-70 °C (Storage)
Humidity	20-80% non-condensing (Operating)
	10-90% (Storage)
Power Input	AC/DC Power Adaptor :12VDC/0.4A
	Power cord : US or Euro type
Power Consumption	< 4W
Dimensions	108mm x 73.4mm x 23mm (L x W x H).
Compliance	FCC part 15, Subpart B, Class A
	ANSI C 63.4:2003
	CE EN55022:2006, Class A
	EN55024:1998+A1:2001+A2:2003
	LVD:EN 60 950-1:2001
MTBF	65,000 h(25 °C)

Technical Specifications

LAN Interface Specification

- One RJ-45 female connector for straight or cross-over connection.
- Supports 10/100Base-TX, Full, Half duplex n-way (Auto-Negotiation).
- Supports Full, Half duplex, 10/100 speed manual selections.
- Transmission Packet Rate for 10/100BaseTX : 14880bps/148800bps.
- Copper TP cable 4 pair Cat. 3 or 5 UTP

Optical Interface Specification

- Transceiver Connector type: SC
- Wavelength(typical) : multi-mode: WDM:1310/1550nm or 1550/1310nm , 2km
single-mode: WDM:1310/1550nm or 1550/1310nm(A/B type) up to 60Km
- Supports Full & Half duplex selections

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Ordering Information

Part Number	Description
OE1A-B1Bx*-SNNV	10/100Base-TX to 100Base-FX converter, TRx SC WDM 13Tx/15Rx, 2km multi-mode application, Unmanaged
OE1A-B2Bx*-SNNV	10/100Base-TX to 100Base-FX converter, (TRx SC WDM 15Tx/13Rx), 2km multi-mode application , Unmanaged
OE1A-B1Mx*-SNNV	10/100Base-TX to 100Base-FX converter, TRx SC WDM 13Tx/15Rx, 20km single-mode application, Unmanaged
OE1A-B2Mx*-SNNV	10/100Base-TX to 100Base-FX converter, (TRx SC WDM 15Tx/13Rx), 20km single-mode application , Unmanaged
OE1A-B1Dx*-SNNV	10/100Base-TX to 100Base-FX converter, TRx SC WDM 13Tx/15Rx, 40km single-mode application, Unmanaged
OE1A-B2Dx*-SNNV	10/100Base-TX to 100Base-FX converter, (TRx SC WDM 15Tx/13Rx), 40km single-mode application , Unmanaged
OE1A-B1Xx*-SNNV	10/100Base-TX to 100Base-FX converter, TRx SC WDM 13Tx/15Rx, 60km single-mode application, Unmanaged
OE1A-B2Xx*-SNNV	10/100Base-TX to 100Base-FX converter, (TRx SC WDM 15Tx/13Rx), 60km single-mode application , Unmanaged

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 x=1 0~50°C /DC IN 12VDC US type power adaptor
 x=2 0~50°C /DC IN 12VDC Euro type power adaptor
 x=3 0~50°C /AC IN 90~250V