



Overview

EtherWAN's EM1020 series offers 1000BASE-T to 1000BASE SFP socket for Gigabit fibre optic expansion in multi-mode, single mode, or WDM single mode. The flexible and easy to use, EM1020 series is one of the most versatile media converters in the world. It has a stand-alone kit ideal for desktop use, and is also wall mountable. It's available in a 19" rack mountable chassis that holds up to 16 units of any of EtherWAN's Ethernet and Gigabit Ethernet media converters for central control purposes. The EM1020 Series features easy to understand diagnostic LEDs. These LEDs show details for Link, Transmit/Receive, Full/Half duplex, and power status.

Features

- DIP switch configuration for "Link-Fault-Pass-Through", Fibre auto/force mode
- 1000Mbps-Auto/Full-duplex, Auto-Negotiation, Auto-MDI/MDIX
- SFP socket for Gigabit fibre optic expansion
- Full wire-speed forwarding rate
- 12VDC external universal PSU
- 0°C to 45°C (32°F to 113°F) operating temperature range
- Aluminium case
- Supports Wall Mounting installation or use with
- EMC1600 media converter chassis system

Ordering Information

EM1020 1000BASE-T to Gigabit SFP Media Converter

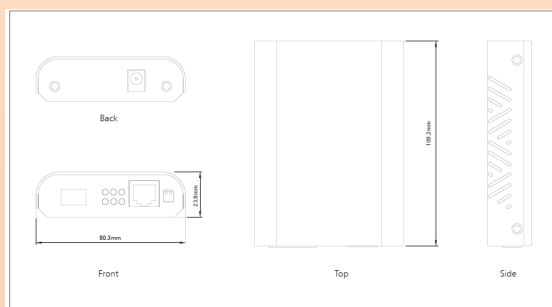
SFP Non-Hardened Type Gigabit Fibre Transceiver: (Optional)

Part Number	Typical Distance	Wavelength (nm)	Cable Type	Connector
EX-1250NSP-SB1L	275M/500M	850	MM	Duplex LC
EX-1250TSP-MB4L	10KM	1310	SM	Duplex LC
EX-1250TSP-NB6L	40KM	1310	SM	Duplex LC
EX-1250TSP-KB8L	70KM	1550	SM	Duplex LC
EX-1250TSP-CB8L	70KM	TX:1470 / RX:1610	CWDM	Duplex LC
EX-1250TBP-MB1L	550M	TX:1310 / RX:1550	MM WDM-A	LC
EX-1250TBP-LB1L	550M	TX:1550 / RX:1310	MM WDM-B	LC
EX-1250TBP-MB4L	10KM	TX:1310 / RX:1550	SM WDM-A	LC
EX-1250TBP-KB4L	10KM	TX:1550 / RX:1310	SM WDM-B	LC
EX-1250TBP-MB5L	20KM	TX:1310 / RX:1550	SM WDM-A	LC
EX-1250TBP-KB5L	20KM	TX:1550 / RX:1310	SM WDM-B	LC
EX-1250TBP-NB6L-D	40KM	TX:1310 / RX:1550	SM WDM-A	LC
EX-1250TBP-KB6L-D	40KM	TX:1550 / RX:1310	SM WDM-B	LC
EX-1250TBP-NB7L-D	60KM	TX:1310 / RX:1550	SM WDM-A	LC
EX-1250TBP-KB7L-D	60KM	TX:1550 / RX:1310	SM WDM-B	LC
EX-1250TBP-CB8L-D (1490nm)	80KM	TX:1490 / RX:1570	SM WDM-A	LC
EX-1250TBP-CB8L-D (1570nm)	80KM	TX:1570 / RX:1490	SM WDM-B	LC

NOTES:

- *More Gigabit SFP options also available upon request.
- *EMC1600, proprietary 19" chassis system, can house up to 16xEM1020 Series Converters.
- *EMC1600 Chassis System is available separately.

Diagrams



Specifications

Technology

Standards:

- IEEE802.3ab 1000BASE-T, IEEE802.3z 1000BASE-SX/1000BASE-LX, IEEE802.3x

Forward and Filtering Rate:

- 1,488,100pps for 1000Mbps

Power

Input:

- Input Voltage: 12VDC

Power Consumption:

- 2.4W Max. 0.2A@12VDC

Mechanical

Casing:

- Aluminium case

Dimensions:

- 80.3mm (W) x 109.2mm (D) x 23.8mm (H)
(3.16" (W) x 4.3" (D) x 0.94" (H))

Weight:

- 150g (0.33lb.)

Installation:

- Wall Mounting or use with EMC1600 media converter chassis system

Interface

Ethernet Port:

- 1000BASE-T: 1 port
- Gigabit SFP: 1 port

LED Indicators:

- Per Unit: Power Status (Power)
- Per Port: 1000T: Link, Full-duplex/Collision
- Gigabit SFP : Link, Transmit, Receive

Environment

Operating Temperature:

- 0°C to 45°C (32°F to 113°F)

Storage Temperature:

- -10°C to 70°C (14°F to 158°F)

Ambient Relative Humidity:

- 5% to 95% (non-condensing)

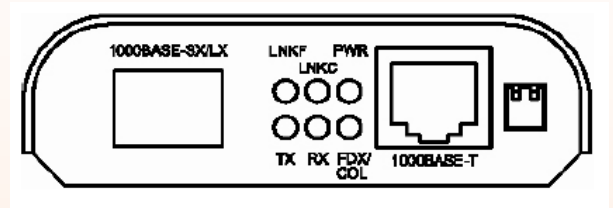
Regulatory Approvals

ISO:

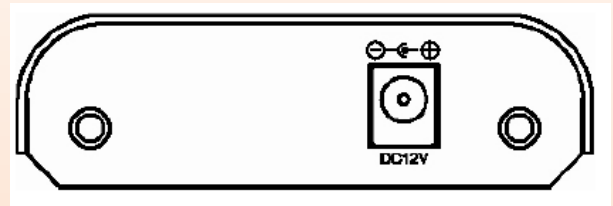
- Manufactured in an ISO9001 facility.

Emission Compliance:

- CE Mark Class A, FCC Part 15 Class A, VCCI Class A.



1000Base-T to Gigabit SFP socket Media Converter



EMC1600, 19"chassis system Up to 16 x EM1020 Converters.

