

EM1100 EM2100 Series

10/100/1000BASE-TX to 1000BASE-SX/LX/BX Media Converter

Gigabit

Overview



EtherWAN offers the market a complete selection of Gigabit media converters. From 10/100/1000BASE-TX to fibre Gigabit in multi-mode or single-mode, fibre optic interfaces. Flexible and easy to use, The EM1100 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. The EM1100 is available in a 19" rack mountable chassis that may hold up to 16 units of any of EtherWAN's media converters for central control purposes. The EM1100 Series features easy to understand diagnostic LEDs. These LEDs shows details for Link/Activity, 100, 1000, Full/Half duplex, and power status.

Features

- 2M bits buffer memory
- 1000Mbps-Full-duplex, 10/100Mbps-Full/Half-duplex,
- Auto-Negotiation, Auto-MDI/MDIX
- Full wire-speed forwarding rate
- Aluminium case
- 12VDC external PSU
- 0°C to 45°C (32°F to 113°F) operating temperature range
- Supports Wall Mounting installation or use with EMC1600 Media converter chassis system

Ordering Information

EM1100TSC	10/100/1000BASE-TX to 1000BASE-SX (SC) -550m Media Converter
EM1100TSC-2	10/100/1000BASE-TX to 1000BASE-SX (SC) - 2Km Media Converter
EM1100TLC-10	10/100/1000BASE-TX to 1000BASE-LX (SC) -10Km Media Converter
EM1100TLC-20	10/100/1000BASE-TX to 1000BASE-LX (SC) -20Km Media Converter
EM1100TLC-50	10/100/1000BASE-TX to 1000BASE-LX (SC) -50Km Media Converter
EM2100TLCA-10	10/100/1000BASE-TX to 1000BASE-BX (SC) WDM -TX: 1310nm/RX: 1550nm -10 Km Media Converters
EM2100TLCB-10	10/100/1000BASE-TX to 1000BASE-BX (SC) WDM -TX: 1550nm/RX: 1310nm -10 Km Media Converters
EM2100TLCA-20	10/100/1000BASE-TX to 1000BASE-BX (SC) WDM -TX: 1310nm/RX: 1550nm -20 Km Media Converters
EM2100TLCB-20	10/100/1000BASE-TX to 1000BASE-BX (SC) WDM -TX: 1550nm/RX: 1310nm -20 Km Media Converters
EM2100TLCA-60	10/100/1000BASE-TX to 1000BASE-BX (SC) WDM -TX: 1310nm/RX: 1550nm -60 Km Media Converters
EM2100TLCB-60	10/100/1000BASE-TX to 1000BASE-BX (SC) WDM -TX: 1550nm/RX: 1310nm -60 Km Media Converters

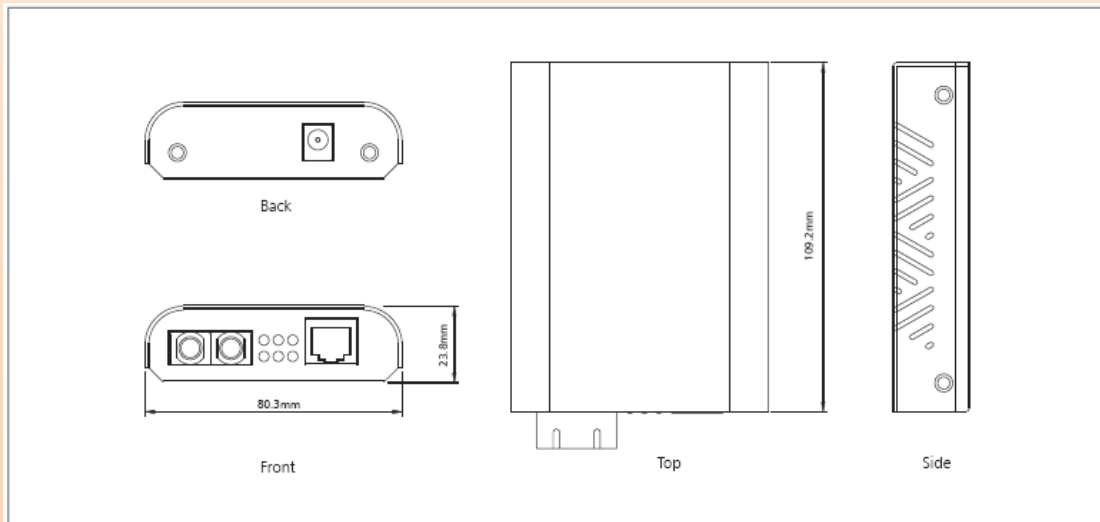
NOTES:

*EMC1600, proprietary 19" chassis system, can house up to 16xEM1100/EM2100 Series Converters.

*EMC1600 Chassis System is available separately.

*More Gigabit fibre options are also available upon request.

Diagrams



EM1100 EM2100 Series

10/100/1000BASE-TX to 1000BASE-SX/LX/BX Media Converter
Gigabit

Specifications

Technology

Standards:

- IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, IEEE802.3ab 1000BASE-T, IEEE802.3z 1000BASE-SX/1000BASE-LX, IEEE802.3x

Forward and Filtering Rate:

- 14,880pps for 10Mbps
- 148,810pps for 100Mbps
- 1,488,100pps for 1000Mbps

Packet Buffer Memory:

- 2M bits

Processing Type:

- Store-and-Forward
- Half-duplex back-pressure and IEEE802.3x full-duplex flow control

Power

Input:

- Input Voltage: 12VDC

Power Consumption:

- 4.25W Max. 0.35A@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:

- 10/100/1000BASE-TX: 1 port
- 1000BASE-SX/LX/BX: 1 port

LED Indicators:

- Per Unit: Power Status (Power)
- Per Port: 10/100/1000TX: Link/Activity, Speed, Full-duplex/Collision
- 1000SX/LX: Link/Activity

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)

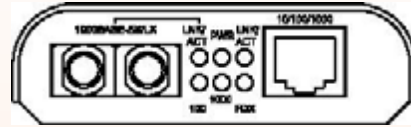
Regulatory Approvals

ISO:

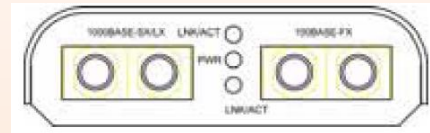
- Manufactured in an ISO9001 facility.

Emission Compliance:

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



10/100/1000Base-TX ↔ 1000Base-SX/LX Media Converter



1000Base-SX/LX ↔ 100Base-FX Media Converter

16 Bay Chassis for 19" Racks

<NOTE> the chassis is to be ordered separately

