

EM1000 EM2000 Series

1000Base-T to 1000Base-SX/LX/BX Media Converter



Overview

EtherWAN's EM1000/EM2000 series offers several different selections from 1000Base-T to fiber optic Gigabit in multi-mode or single-mode 1000Base-SX/LX; There are several different single-mode options available for 10, 20, and 50Km (6.2, 12.4, and 31miles) distance. The flexible and easy to use, EM1000/EM2000 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 EM1000/EM2000 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", fiber auto/force mode
- ▶ 1000Mbps-Auto/Full-duplex, Auto-Negotiation, Auto-MDI/MDIX
- ▶ Full wire-speed forwarding rate
- ▶ 12VDC external universal PSU
- ▶ 0°C to 45°C (32°F to 113°F) operating temperature range
- ▶ Aluminum case
- ▶ Supports Wall Mounting installation or use with EMC1600 media converter chassis system

Ordering Information

EM1000TSC	1000Base-T to 1000Base-SX (SC) -550m Media Converter
EM1000TSC-2	1000Base-T to 1000Base-SX (SC) - 2Km Media Converter
EM1000TLC-10	1000Base-T to 1000Base-LX (SC) -10Km Media Converter
EM1000TLC-20	1000Base-T to 1000Base-LX (SC) -20Km Media Converter
EM1000TLC-50	1000Base-T to 1000Base-LX (SC) -50Km Media Converter
EM2000TLCA-10	1000Base-T to 1000Base-LX (SC) WDM -TX:1310nm/RX:1550nm -10Km Media Converter
EM2000TLCA-20	1000Base-T to 1000Base-LX (SC) WDM -TX:1310nm/RX:1550nm -20Km Media Converter
EM2000TLCA-50	1000Base-T to 1000Base-LX (SC) WDM -TX:1310nm/RX:1550nm -50Km Media Converter
EM2000TLCB-10	1000Base-T to 1000Base-LX (SC) WDM -TX:1550nm/RX:1310nm -10Km Media Converter
EM2000TLCB-20	1000Base-T to 1000Base-LX (SC) WDM -TX:1550nm/RX:1310nm -20Km Media Converter
EM2000TLCB-50	1000Base-T to 1000Base-LX (SC) WDM -TX:1550nm/RX:1310nm -50Km Media Converter

*EMC1600, proprietary 19" chassis system, can house up to 16 EM1000/EM2000 Series Converters.

*EMC1600 Chassis System available seperately.

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:

- Aluminum 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:

- 1000BaseT: 1 port
- 1000Base-SX/LX/BX: 1 port

LED Indicators:

- Per Unit: Power Status (Power)
- Per Port: 1000T, 1000SX/LX: Link, Full-duplex/Collision
1000SX/LX: 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.

Diagrams

