

EM1000/2000SLC Series



1000Base-SX/LX to 1000Base-LX

Overview

EtherWAN's EM1000 series offers several different selections from multi-mode/single-mode to single-mode, fiber to fiber, Gigabit media converter. There are also several different single-mode options available for 10, 20, and 50Km (6.2, 12.4, and 31 miles) distance.

The flexible and easy to use, EM1000 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 media converters for central control purposes.

EM1000 Series features easy to understand diagnostic LEDs. These LEDs show details for Link, Transmit/Receive, Full/Half duplex, and power status.

Key Features

- ▶ One 1000Base-SX/LX fiber port supporting either multi-mode or single-mode fiber
- ▶ One 1000Base-LX fiber port supporting single-mode fiber
- ▶ LED Indication: PWR/SDA/SDB
- ▶ Compliant with IEEE 802.3z 1000Base-SX/LX
- ▶ Extended single-mode fiber distance up to 50km
- ▶ Wall-mountable or expansion use with a 19" media converter chassis system*

Ordering Information

EM1000SLC-10	1000Base-SX (SC Multi-Mode 550m) to 1000Base-LX (SC Single-Mode 10Km) Media Converter
EM1000SLC-20	1000Base-SX (SC Multi-Mode 550m) to 1000Base-LX (SC Single-Mode 20Km) Media Converter
EM1000SLC-50	1000Base-SX (SC Multi-Mode 550m) to 1000Base-LX (SC Single-Mode 50Km) Media Converter
EM2000SLCA-20	1000Base-SX (SC Multi-Mode 550m) to 1000Base-LX (WDM) (SC TX: 1310nm / RX: 1550nm Single-Mode 20Km) Media Converter
EM2000SLCA-40	1000Base-SX (SC Multi-Mode 550m) to 1000Base-LX (WDM) (SC TX: 1310nm / RX: 1550nm Single-Mode 40Km) Media Converter
EM2000SLCB-20	1000Base-SX (SC Multi-Mode 550m) to 1000Base-LX (WDM) (SC TX: 1550nm / RX: 1310nm Single-Mode 20Km) Media Converter
EM2000SLCB-40	1000Base-SX (SC Multi-Mode 550m) to 1000Base-LX (WDM) (SC TX: 1550nm / RX: 1310nm Single-Mode 40Km) Media Converter

NOTES:

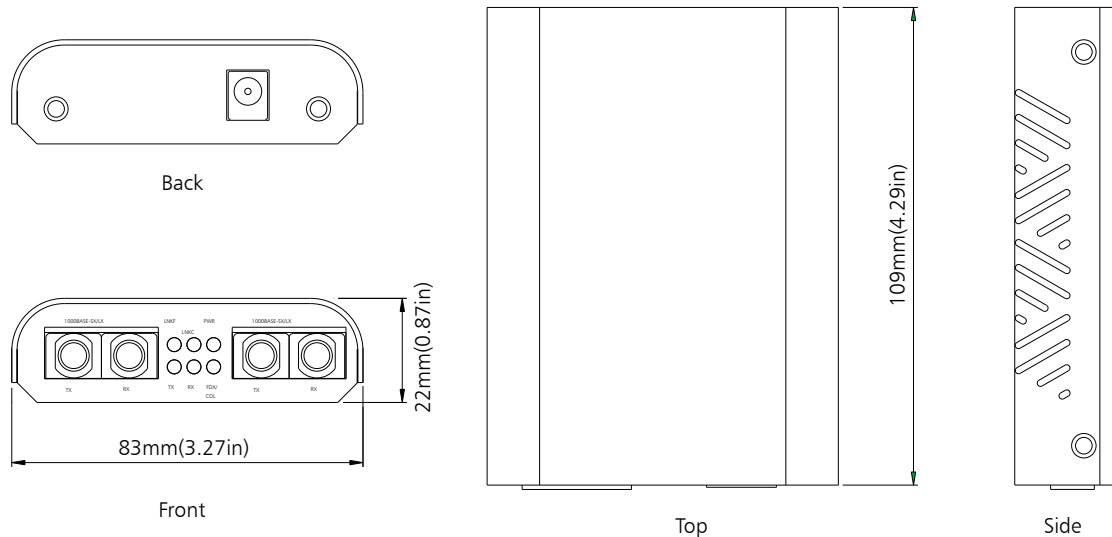
Proprietary 19" system chassis can house up to 16 EM1000/EM2000 Series Converters.

The chassis is to be ordered separately.

Single-mode to single-mode version converters series is also available.

Non-Hardened Unmanaged Converters

Diagrams



- Ethernet Switches 1
- Serial Servers 2
- Media Converters 3
- Others 4

Technical & Physical Specifications

LED:

- EM1000SLC/LLC:
 - Per Unit - PWR (Power) (1 LED)
 - Per Port - SDA (Signal Detect for the left fiber port) or SDB (Signal Detect for the right fiber port) (1 LED)

Ethernet Standards:

- IEEE 802.3z 1000Base-SX/LX

Cable:

- 1000Base-SX 50 or 62.5/125 m Multi-Mode
- 1000Base-LX 9 or 10/125 m Single-Mode

AC Input:

- External AC/DC 12VDC 0.2A power adapter

Power Supply:

- External AC/DC PSU, Input 100 to 240VAC, 50 to 60Hz, Output 12VDC @ 0.8A, 9.6W Max.

Power Dissipation:

- 2.38W Max.

Operating Temperature:

- 0°C to 45°C (32°F to 113°F)

Storage Temperature:

- 10°C to 70°C (14°F to 158°F)

Humidity:

- 10% to 90% Non-Condensing

Dimensions:

- 109mm (D) x 83mm (W) x 22mm (H)
(4.29" (D) x 3.27" (W) x 0.87" (H))

Weight:

- 0.15Kg (0.33lb.)

Emissions Compliance:

- CE Mark Class A; FCC Part 15, Class A

Designation	Typical Distance*	Nominal Wavelength	Cable Type	Connector	Optical Budget
1000Base-SX	550 m	850 nm	50/125 MM	SC	7.5 dB
1000Base-LX	10 km	1310 nm	10/125 SM	SC	14.5 dB
1000Base-LX	20 km	1310 nm	10/125 SM	SC	17 dB