# EM1000S/EM2000S Series

1000BASE-SX/LX to 1000BASE-LX/BX Media Converter



## Overview

The EM1000S/EM2000S Series provides media conversion between 1000BASE-T(X) and 1000BASE-FX Fiber. Easy plugand-play design facilitates network infrastructure construction. Also, this commercial grade Gigabit media converter supports EtherWAN EMC1600 chassis system for easy group installation. The EM1000S/EM2000S is the ideal media converter for enterprise environments.

EtherWAN — "**When Connectivity is Crucial.**"

## Spotlight

### Gigabit Connectivity

» 1000BASE- SX/LX/BX to 1000BASE-SX/LX/BX fiber transmission conversion
» 1000Mbps Full duplex
» Full wire-speed forwarding rate

### Optional Chassis System

» Supports wall mounting or EtherWAN's EMC1600 chassis system for easy group installation with power redundancy

# Specifications

## Technology

### Standards

• IEEE802.3ab, 1000BASE-T
• IEEE802.3z, 1000BASE-SX/1000BASE-LX
• IEEE802.3x, Full duplex and flow control

### Forward and Filtering Rate

• 1,488,100pps for 1000Mbps

### Processing Type

• Auto Negotiation
• Auto MDI/MDIX

---

## Power

### 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 (0.336lbs.)

### Installation

• Wall mounting or use with EMC1600 media converter chassis system

---

## Interface

**Ethernet Port**

• 1000BASE-SX/LX/BX: 2 ports

**LED Indicators**

• Per Unit: Power Status (Power)
• Per Port: 1000SX/LX: Link

---

## 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**

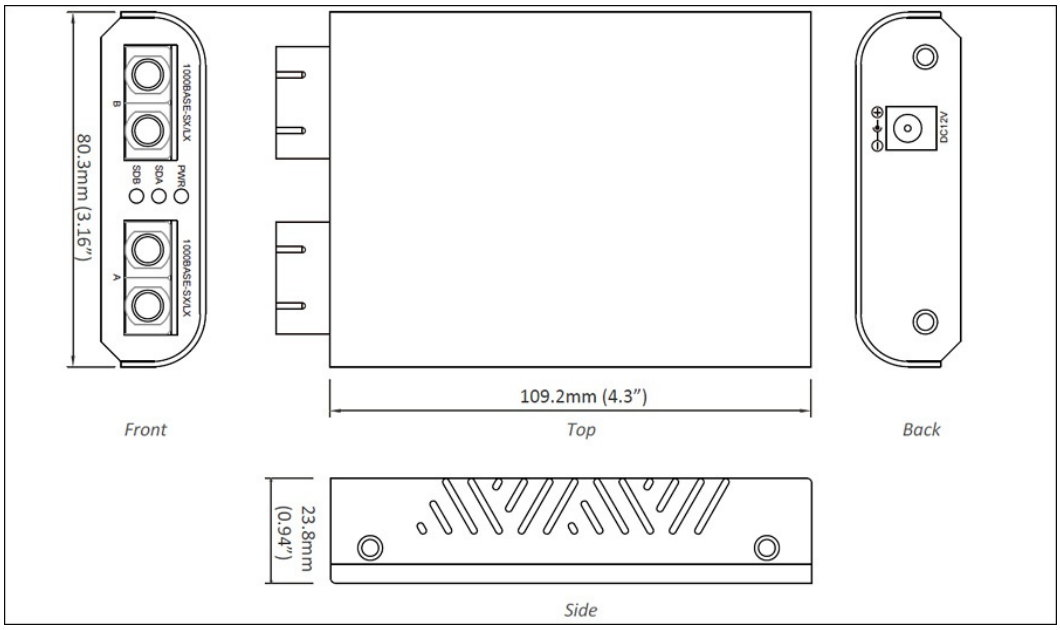
• Manufactured in an ISO9001 facility

**Emission Compliances**

CE Mark Class A
FCC Part 15B Class A
VCCI Class A

---

# Dimensions




# Ordering Info

## Model

| | |
|---|---|
| **EM1000SLC-10** | 1000BASE-SX(SC)-550m to 1000BASE-LX(SC)-10Km Media Converter (1310nm) |
| **EM1000SLC-20** | 1000BASE-SX(SC)-550m to 1000BASE-LX(SC)-20Km Media Converter (1310nm) |
| **EM2000SLCA-20** | 1000BASE-SX(SC)-550m to 1000BASE-BX(SC)WDM-TX:1310nm/RX:1550nm-20Km Media Converter |
| **EM2000SLCB-20** | 1000BASE-SX(SC)-550m to 1000BASE-BX(SC)WDM-TX:1550nm/RX:1310nm-20Km Media Converter |
| **EM2000SLCA-60** | 1000BASE-SX(SC)-550m to 1000BASE-BX(SC)WDM-TX:1310nm/RX:1550nm-60Km Media Converter |
| **EM2000SLCB-60** | 1000BASE-SX(SC)-550m to 1000BASE-BX(SC)WDM-TX:1550nm/RX:1310nm-60Km Media Converter |

* EMC1600 (available separately), a proprietary 19" chassis system, can house up to 16xEM1000S/EM2000S Series media converters.
* More Gigabit fiber options are available upon request.
* 1000BASE-LX to 1000BASE-LX converters are also available.

© EtherWAN Systems, Inc. All rights reserved. 20260107
EtherWAN is constantly developing and improving products. Specifications are subject to change without notice and without incurring any obligation.