

# EM1000 / EM2000 Series

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



## Overview

The EM1000/EM2000 Series provides media conversion between 1000BASE-T(X) and 1000BASE-FX Fiber. Easy plug-and-play design facilitates network infrastructure construction. Also, this commercial grade Gigabit media converter supports EtherWAN EMC1600 chassis system for easy group installation. The EM1000/EM2000 is the ideal media converter for enterprise environments.

EtherWAN – “When Connectivity is Crucial”.

## Spotlight

### • Gigabit Connectivity

- Auto 1000BASE-T and 1000BASE-SX/LX/BX Ethernet 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

# Hardware 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

### 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-T: 1 port
- 1000BASE-SX/LX/BX: 1 port

### LED Indicators

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

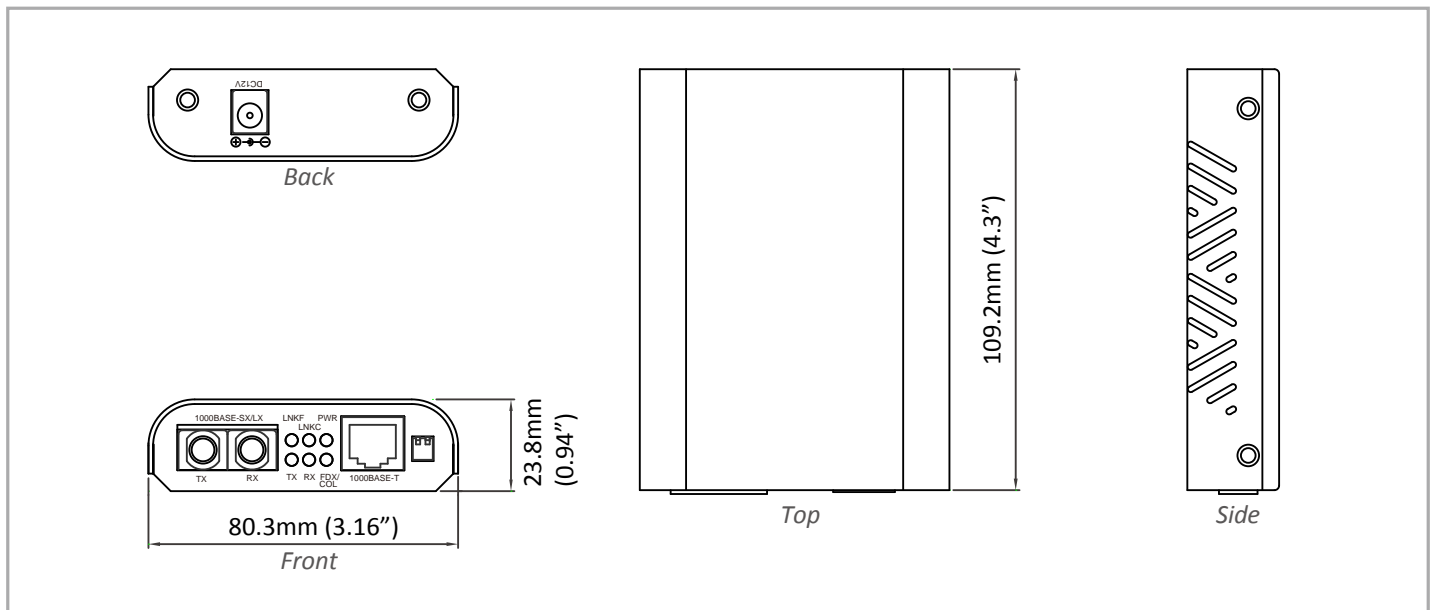
## Emission Compliances

### CE Mark Class A

### FCC Part 15B Class A

### VCCI Class A

## Dimensions



## Ordering Information

### Model

<b>EM1000TSC</b>	1000BASE-T to 1000BASE-SX (SC) - 550m Media Converter (850nm)
<b>EM1000TSC-2</b>	1000BASE-T to 1000BASE-SX (SC) - 2Km Media Converter (1310nm)
<b>EM1000TLC-10</b>	1000BASE-T to 1000BASE-LX (SC) - 10Km Media Converter (1310nm)
<b>EM1000TLC-20</b>	1000BASE-T to 1000BASE-LX (SC) - 20Km Media Converter (1310nm)
<b>EM2000TLCA-20</b>	1000BASE-T to 1000BASE-LX (SC) WDM -TX:1310nm/RX:1550nm - 20Km Media Converter
<b>EM2000TLCA-60</b>	1000BASE-T to 1000BASE-LX (SC) WDM -TX:1310nm/RX:1550nm - 60Km Media Converter
<b>EM2000TLCA-20</b>	1000BASE-T to 1000BASE-LX (SC) WDM -TX:1550nm/RX:1310nm - 20Km Media Converter
<b>EM2000TLCA-60</b>	1000BASE-T to 1000BASE-LX (SC) WDM -TX:1550nm/RX:1310nm - 60Km Media Converter

\* EMC1600 (available separately), a proprietary 19" chassis system, can house up to 16 x EM1000S/EM2000 Series media converters.