

EM1100 / EM2100 Series

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



Overview

The EM1100/EM2100 Series provides media conversion between 10/100/1000BASE-T(X) and 1000BASE-SX/LX/BX 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 EM1100/EM2100 is the ideal media converter for enterprise environments.

EtherWAN – “When Connectivity is Crucial”.

Spotlight

• Gigabit Connectivity

- Auto 10/100/1000BASE-TX and 1000BASE-SX/LX/BX Ethernet transmission conversion
- 1000Mbps Full duplex, 10/100Mbps Full/Half 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

- IEEE802.3 10BASE-T
- IEEE802.3u 100BASE-T
- IEEE802.3ab 1000BASE-T
- IEEE802.3z 1000BASE-SX/1000BASE-LX
- IEEE802.3x full duplex and flow control

Forward and Filtering Rate

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

Packet Buffer Memory

- 256K bits

Processing Type

- Store-and-Forward
- Auto Negotiation
- Half duplex back-pressure and IEEE802.3x full-duplex flow control
- Auto-MDI/MDIX

Power

Input Voltage

- 12VDC

Power Consumption

- 4.25W Max. 0.35A @ 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 installs with EMC1600 media converter chassis system

Interface

Ethernet Port

- 10/100/1000BASE-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/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

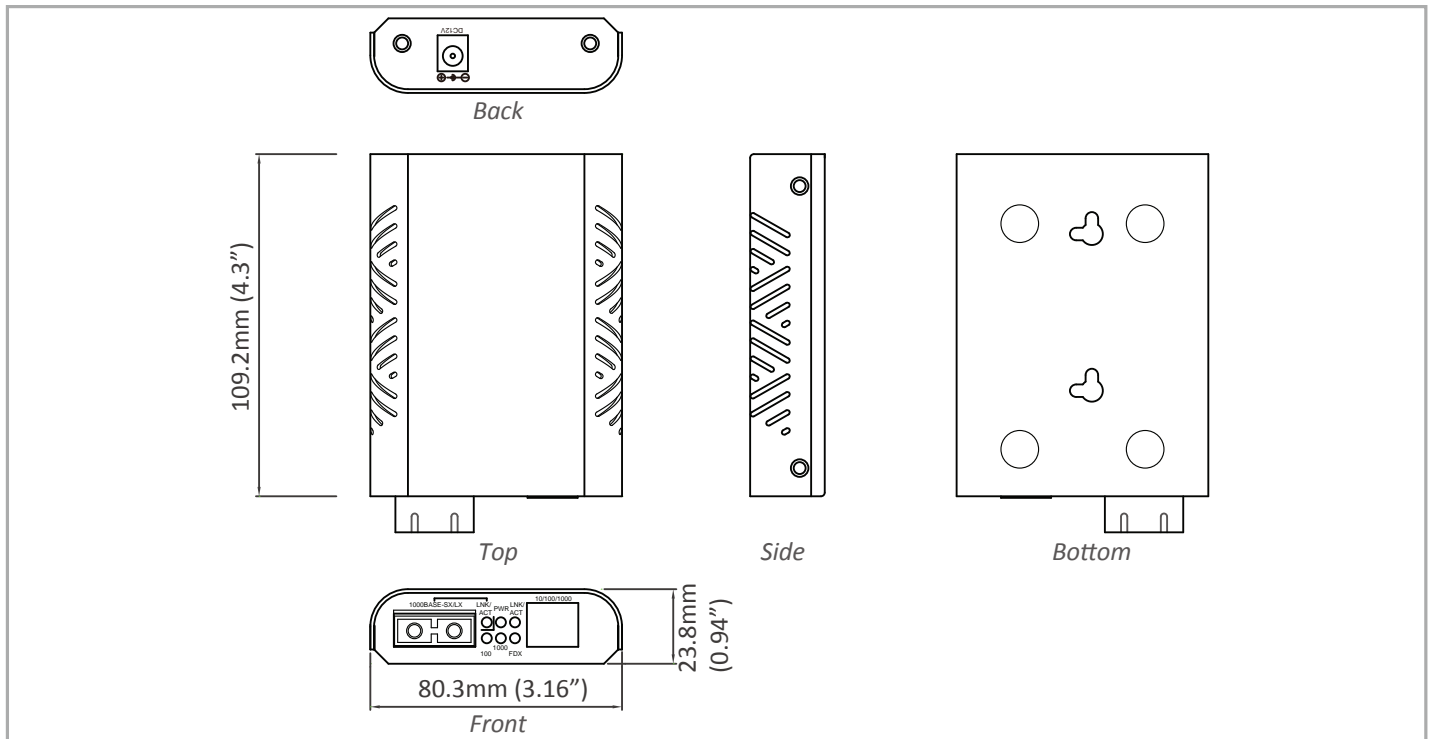
ISO

- Manufactured in an ISO9001 facility

Emission Compliances

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

Dimensions



Ordering Information

Model

EM1100TSC	10/100/1000BASE-TX to 1000BASE-SX (SC) - 550m Media Converter (850nm)
EM1100TSC-2	10/100/1000BASE-TX to 1000BASE-SX (SC) - 2Km Media Converter (1310nm)
EM1100TLC-10	10/100/1000BASE-TX to 1000BASE-LX (SC) - 10Km Media Converter (1310nm)
EM1100TLC-20	10/100/1000BASE-TX to 1000BASE-LX (SC) - 20Km Media Converter (1310nm)
EM2100TLCA-20	10/100/1000BASE-TX to 1000BASE-BX (SC) WDM -TX:1310nm/RX:1550nm - 20Km Media Converter
EM2100TLCB-20	10/100/1000BASE-TX to 1000BASE-BX (SC) WDM -TX:1550nm/RX:1310nm - 20Km Media Converter
EM2100TLCA-60	10/100/1000BASE-TX to 1000BASE-BX (SC) WDM -TX:1310nm/RX:1550nm - 60Km Media Converter
EM2100TLCB-60	10/100/1000BASE-TX to 1000BASE-BX (SC) WDM -TX:1550nm/RX:1310nm - 60Km Media Converter

* More Gigabit fiber options are also available upon request.

* EMC1600 (available separately), a proprietary 19" chassis system, can house up to 16 x EM1100 / EM2100 Series media converters.