

EMC1200R Series

12-Bay Media Converter Chassis System



Overview

EMC1200R Series, yet another high quality product designed and manufactured by EtherWAN. We have successfully produced a highly versatile and compact unit to meet modern complicated networking needs. With a simple exterior that looks just like another switch, EMC1200R Series allows for a fixture of different types of switching or straight converters. With the capability of handling 12 bays of media conversion for requirements such as copper to Multi-Mode or Single-Mode fiber; Multi-Mode fiber to Multi-Mode or Single-Mode fiber, in any possible combination to suit your needs.

The EMC1200R Series is just one of the many total solutions offered by EtherWAN as EtherWAN's development team continues to provide total Ethernet solutions based on the latest technologies.

Features

- ▶ House up to twelve Media Converters (EM1100/EM2100, EM1000/EM2000, EM1000SLC/EM2000SLC, EM120, EL100/EL200, and EL110/EL210 series)
- ▶ Non-stop operation and minimal downtime
- ▶ Hot-swappable: redundant power supply modules
- ▶ Redundant 100 ~ 240VAC 50 ~ 60Hz Internal Universal PSU
- ▶ Power redundancy: The other redundant power supply module is capable of taking over immediately if one of the redundant power supply modules fails
- ▶ Load sharing: Two internal power supply modules provided for load sharing purposes
- ▶ Power isolation: Media Converter bay power isolation ensures each bay is electrically isolated from each other
- ▶ Over current protection: Fuse on PCBA for each Media Converter bay and power supply module
- ▶ 0°C to 45°C (32°F to 113°F) operating temperature range
- ▶ Metal case, standard 19" rack-mount size, one-unit-height
- ▶ Supports Rack Mounting installation

Specifications

Technology

Standards:

- EM1100, EM2100: IEEE802.3 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-SX/1000Base-LX, IEEE802.3x
- EM1000, EM2000: IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-SX/1000Base-LX, IEEE802.3x
- EM1000SLC, EM2000SLC: IEEE802.3z 1000Base-SX/1000Base-LX
- EM120: IEEE802.3u 100Base-FX
- EL100, EL200: IEEE802.3 10Base-T, IEEE802.3u 100Base-TX/100Base-FX, IEEE802.3x
- EL110, EL210: IEEE802.3u 100Base-TX/100Base-FX, IEEE802.3x

Forward and Filtering Rate:

- EM1100, EM2100: 14,880pps for 10Mbps, 148,810pps for 100Mbps, 1,488,100pps for 1000Mbps
- EM1000, EM2000: 1,488,100pps for 1000Mbps
- EM1000SLC, EM2000SLC: 1,488,100pps for 1000Mbps
- EL100, EL200: 14,880pps for 10Mbps, 148,810pps for 100Mbps
- EL110, EL210: 148,810pps for 100Mbps
- EM120: 148,810pps for 100Mbps

Packet Buffer Memory:

- EM1100, EM2100: 2M bits
- EL100, EL200: 768K bits
- EL110, EL210: 768K bits

Processing Type:

- EM1100, EM2100: Store-and-Forward, Half-duplex back-pressure and IEEE802.3x full-duplex flow control
- EL100, EL200: Store-and-Forward, Half-duplex back-pressure and IEEE802.3x full-duplex flow control
- EL110, EL210: Store-and-Forward, Half-duplex back-pressure and IEEE802.3x full-duplex flow control

Address Table Size:

- EM1100, EM2100: 4096 MAC addresses

- EL100, EL200: 2048 MAC addresses
- EL110, EL210: 2048 MAC addresses

Latency:

- EM1100, EM2100: Less than 286.1 μ s
- EL100, EL200: Less than 128.9 μ s
- EL110, EL210: Less than 128.9 μ s

Power

Input:

- 100 ~ 240VAC, 50 ~ 60Hz Internal Universal PSU

Power Consumption:

- 55.2W Max.

Mechanical

Casing:

- Metal case

Dimensions:

- 440mm (W) x 243mm (D) x 45mm (H)
(17.32" (W) x 9.57" (D) x 1.77" (H))
- Standard 19" rack-mount size, one-unit-height

Weight:

- 3.1Kg (6.82lbs.)

Installation:

- Rack Mounting

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:

- 10% to 90% (non-condensing)

Multiple Channel/Port Media Converters

Ethernet Switches 1

Serial Servers 2

Media Converters 3

Others 4

Interface

LED Indicators:

- EM1100, EM2100:
Per Unit: Power Status (Power)
Per Port: 10/100/1000TX: Link/Activity, Speed, Full-duplex/Collision
1000SX/LX: Link/Activity
- EM1000, EM2000:
Per Unit: Power Status (Power), Full-duplex/Collision, Transmit, Receive
Per Port: 10/100/1000TX, 1000SX/LX: Link
- EM1000SLC, EM2000SLC:
Per Unit: Power Status (Power)
Per Port: 1000SX/LX: Link

- EL100, EL200:
Per Unit: Power Status (Power)
Per Port: 10/100TX: Link/Activity, Full-duplex/Collision, Speed
100FX: Link/Activity, Full-duplex/Collision
- EL110, EL210:
Per Unit: Power Status (Power), Link, Activity
- EM120:
Per Unit: Power Status (Power), Link

Regulatory Approvals:

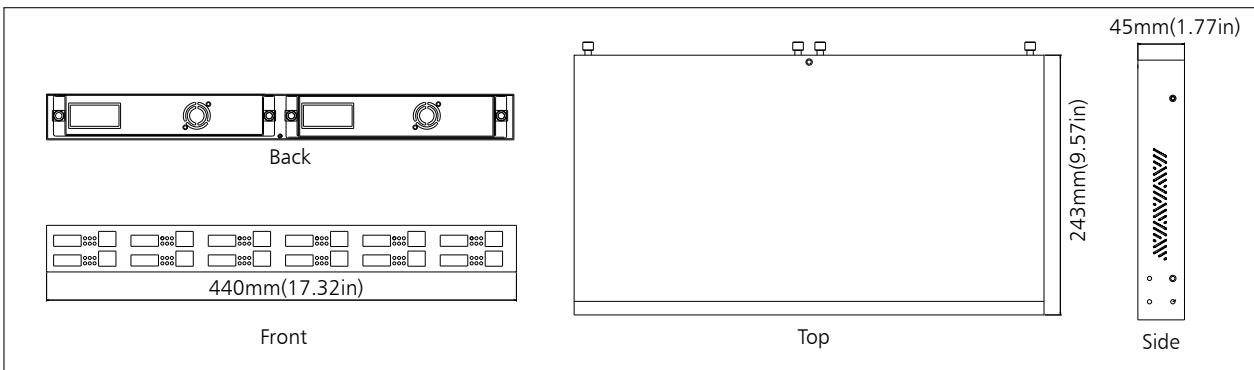
ISO:

- Manufactured in an ISO9001 facility.

Emission Compliance:

- CE Mark Class A, FCC Part 15 Class A

Diagrams



Ordering Information

100Base Fiber

EMC1200RC	12-Bay EL100C Media Converter System
EMC1200RT	12-Bay EL100T Media Converter System
EMC1200RL	12-Bay EL100L Media Converter System
EMC1210RC	12-Bay EL110C Media Converter System
EMC1210RT	12-Bay EL110T Media Converter System
EMC1210RL	12-Bay EL110L Media Converter System
EMC1220RCC-15	12-Bay EM120MCC-15 Media Converter System
EMC1220RTC-15	12-Bay EM120MTC-15 Media Converter System
EMC1220RLC-15	12-Bay EM120MLC-15 Media Converter System

NOTES:

ST fiber also available in Single Mode, 20Km.

SC fiber also available in Single Mode, 15/40/75/100/120Km.

SC fiber also available in Single Mode WDM Type A and Type B, 20/40Km.

1000Base Fiber

EMC12000RTSC	12-Bay EM1000TSC Media Converter System
EMC12000RTL-10	12-Bay EM1000TLC-10 Media Converter System
EMC12000RTL-20	12-Bay EM1000TLC-20 Media Converter System
EMC12000RTL-50	12-Bay EM1000TLC-50 Media Converter System
EMC12100RTSC	12-Bay EM1100TSC Media Converter System
EMC12100RTL-10	12-Bay EM1100TLC-10 Media Converter System
EMC12100RTL-20	12-Bay EM1100TLC-20 Media Converter System
EMC12100RTL-50	12-Bay EM1100TLC-50 Media Converter System
EMC12000RSLC-10	12-Bay EM1000SLC-10 Media Converter System
EMC12000RSLC-20	12-Bay EM1000SLC-20 Media Converter System
EMC12000RSLC-50	12-Bay EM1000SLC-50 Media Converter System
EMC12000RLLC-10	12-Bay EM1000LLC-10 Media Converter System
EMC12000RLLC-20	12-Bay EM1000LLC-20 Media Converter System
EMC12000RLLC-50	12-Bay EM1000LLC-50 Media Converter System

NOTES:

SC fiber also available in Single Mode WDM Type A and Type B, 10/20Km.