EMC1200R Series 12-Bay Media Converter System
Multiple Channel / Media Converter Systems

Overview

The EMC1200R Series is 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, the EMC1200R Series allows for a mixture of different types of switching or straight converters. Twelve channels of media converters in a 1U size chassis. With the capability of handling 12 bays of media conversion for requirements such as copper to Multi-Mode or Single-Mode fibre; Multi-Mode fibre to Multi-Mode or Single-Mode fibre, 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, EM1000S/EM2000S, 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, 48VDC power inputs with load sharing redundancy so there are no power outages if one power supply fails.

- 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

Ordering Information

100BASE Fibre

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 fibre also available in Single Mode, 20Km.
SC fibre also available in Single Mode, 20/40/75/100/120Km.
SC fibre also available in WDM Type A and Type B, Single Mode 20/40Km and Multi Mode 2/5 Km.

1000BASE Fibre

EMC1200RTSC	12-Bay EM1000TSC Media Converter System
EMC1200RTLC-10	12-Bay EM1000TLC-10 Media Converter System
EMC1200RTLC-20	12-Bay EM1000TLC-20 Media Converter System
EMC1200RTLC-50	12-Bay EM1000TLC-50 Media Converter System
EMC1210RTSC	12-Bay EM1100TSC Media Converter System
EMC1210RTLC-10	12-Bay EM1100TLC-10 Media Converter System
EMC1210RTLC-20	12-Bay EM1100TLC-20 Media Converter System
EMC1210RTLC-50	12-Bay EM1100TLC-50 Media Converter System
EMC1200RSLC-10	12-Bay EM1000SLC-10 Media Converter System
EMC1200RSLC-20	12-Bay EM1000SLC-20 Media Converter System
EMC1200RSLC-50	12-Bay EM1000SLC-50 Media Converter System
EMC1200RLLC-10	12-Bay EM1000LLC-10 Media Converter System
EMC1200RLLC-20	12-Bay EM1000LLC-20 Media Converter System
EMC1200RLLC-50	12-Bay EM1000LLC-50 Media Converter System

NOTES:
SC fibre also available in WDM Type A and Type B, Single Mode 10/20Km and Multi Mode 2/5 Km.

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

EM1000S, EM2000S: 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

EM1000S, EM2000S: 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

- IEE802.3x 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

Power

Input:

- 100 ~ 240VAC, 50 ~ 60Hz Internal Universal PSU
- 48VDC

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

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

EM1000S, EM2000S:

- 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

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 90% (non-condensing)

Regulatory Approvals:

ISO:

- Manufactured in an ISO9001 facility.

Emission Compliance:

- CE Mark Class A, FCC Part 15 Class A

Diagrams