

# EL200 Series

## 10/100BASE-TX to 100BASE-BX WDM Media Converter

Fast Ethernet

### Overview

EtherWAN offers its Media Converter Series as a high quality, affordable answer in response to an increase in fibre optics cabling deployment. EtherWAN's EL200 Series is one of the most complete WDM solutions in media conversion. The EL200 Series are available with a selection of fibre connectors and operating modes. The EL200 is the most functional media converter on the market, lowering the cost of fibre optic Network deployment. The RJ-45 port on this unit is dual speed 10/100Mbps with half/full duplex auto sensing. Better than a regular converter, the EL200 has switching capabilities that are able to filter traffic and record MAC addresses.

The whole series comes in desktop kits, which are wall mountable, and also mountable in the EMC1600 chassis.

### Features

- Supports Multi Mode and Single Mode WDM fibre optical connection
- DIP switch configuration for "Link-Fault-Pass-Through", speed, duplex mode
- 768K bits buffer memory
- 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- Full wire-speed forwarding rate
- 12VDC external universal PSU
- 0°C to 45°C (32°F to 113°F) operating temperature range
- Aluminium case
- Supports Wall Mounting installation or expansion use with EMC1600 media converter chassis system

### Ordering Information

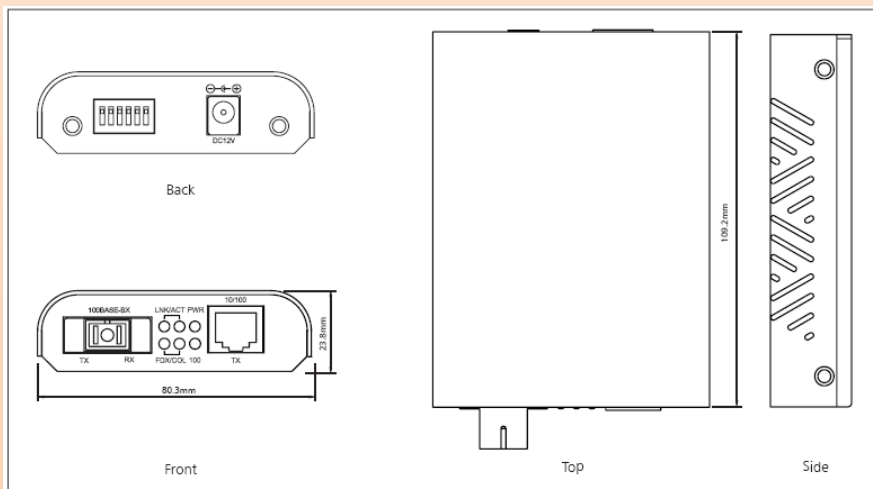
|            |                                                                                                 |
|------------|-------------------------------------------------------------------------------------------------|
| EL200CA-2  | 10/100BASE-TX to 100BASE-BX Multi Mode (SC) WDM -TX: 1310nm/RX: 1550nm -2 Km Media Converters   |
| EL200CB-2  | 10/100BASE-TX to 100BASE-BX Multi Mode (SC) WDM -TX: 1550nm/RX: 1310nm -2 Km Media Converters   |
| EL200CA-5  | 10/100BASE-TX to 100BASE-BX Multi Mode (SC) WDM -TX: 1310nm/RX: 1550nm -5 Km Media Converters   |
| EL200CB-5  | 10/100BASE-TX to 100BASE-BX Multi Mode (SC) WDM -TX: 1550nm/RX: 1310nm -5 Km Media Converters   |
| EL200CA-20 | 10/100BASE-TX to 100BASE-BX Single Mode (SC) WDM -TX: 1310nm/RX: 1550nm -20 Km Media Converters |
| EL200CB-20 | 10/100BASE-TX to 100BASE-BX Single Mode (SC) WDM -TX: 1550nm/RX: 1310nm -20 Km Media Converters |
| EL200CA-40 | 10/100BASE-TX to 100BASE-BX Single Mode (SC) WDM -TX: 1310nm/RX: 1550nm -40 Km Media Converters |
| EL200CB-40 | 10/100BASE-TX to 100BASE-BX Single Mode (SC) WDM -TX: 1550nm/RX: 1310nm -40 Km Media Converters |

|            |                                                                                              |
|------------|----------------------------------------------------------------------------------------------|
| EL210CA-2  | 100BASE-TX to 100BASE-BX Multi Mode (SC) WDM -TX: 1310nm/RX: 1550nm -2 Km Media Converters   |
| EL210CB-2  | 100BASE-TX to 100BASE-BX Multi Mode (SC) WDM -TX: 1550nm/RX: 1310nm -2 Km Media Converters   |
| EL210CA-5  | 100BASE-TX to 100BASE-BX Multi Mode (SC) WDM -TX: 1310nm/RX: 1550nm -5 Km Media Converters   |
| EL210CB-5  | 100BASE-TX to 100BASE-BX Multi Mode (SC) WDM -TX: 1550nm/RX: 1310nm -5 Km Media Converters   |
| EL210CA-20 | 100BASE-TX to 100BASE-BX Single Mode (SC) WDM -TX: 1310nm/RX: 1550nm -20 Km Media Converters |
| EL210CB-20 | 100BASE-TX to 100BASE-BX Single Mode (SC) WDM -TX: 1550nm/RX: 1310nm -20 Km Media Converters |
| EL210CA-40 | 100BASE-TX to 100BASE-BX Single Mode (SC) WDM -TX: 1310nm/RX: 1550nm -40 Km Media Converters |
| EL210CB-40 | 100BASE-TX to 100BASE-BX Single Mode (SC) WDM -TX: 1550nm/RX: 1310nm -40 Km Media Converters |

#### NOTES:

- \*EMC1600, proprietary 19" chassis system, can house up to 16xEL200/EL210 Series Converters.
- \*EMC1600 Chassis System is available separately.
- \*More 100FX fibre options are also available upon request.

### Diagrams



## EL200 Series

10/100BASE-TX to 100BASE-BX WDM Media Converter  
Fast Ethernet

### Specifications

#### Technology

##### Standards:

- IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX/100BASE-FX, IEEE802.3x

##### Forward and Filtering Rate:

- 14,880pps for 10Mbps
- 148,810pps for 100Mbps

##### Packet Buffer Memory:

- 768K bits

##### Processing Type:

- Store-and-Forward
- Half-duplex back-pressure and IEEE802.3x full-duplex flow control

#### Power

##### Input:

- Input Voltage: 12VDC

##### Power Consumption:

- 1.92W Max. 0.16A@12VDC

#### Mechanical

##### Casing:

- Aluminium case

##### Dimensions:

- 80.3mm (W) x 109.2mm (D) x 23.8mm (H)  
(3.16" (W) x 4.30" (D) x 0.94" (H))

##### Weight:

- 150g (0.33lb.)

##### Installation:

- Wall Mounting or use with EMC1600 media converter chassis system

#### Interface

##### Ethernet Port:

- 10/100BASE-TX: 1 port
- 100BASE-BX: 1 port

##### LED Indicators:

- Per Unit: Power Status (Power)
- Per Port: 10/100TX: Link/Activity, Full-duplex/Collision, Speed  
100BX: Link/Activity, Full-duplex/Collision

#### 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.

##### Safety:

- UL60950-1

##### Emission Compliance:

- CE Mark Class A, FCC Part 15 Class A , VCCI Class A.



### EMC1600 16-Bay Media Converter Chassis

