

EL100 Series

10/100Base-TX to 100Base-FX Media Converter

DIREKTRONIK

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Overview

EtherWAN offers its Media Converter Series as a high quality, affordable answer in response to an increase in fiber optics cabling deployment. EtherWAN's Series is one of the most complete solutions in media conversion. The EL100 Series are available in all varieties of fiber connectors and modes. EL100 is the most functional media converter on the market. The RJ-45 port on this unit is dual speed 10/100Mbps with half/full duplex auto sensing. Better than a regular converter, EL100 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 EMC1600 chassis.

Features

- ▶ DIP switch configuration for "Link-Fault-Pass-Through", speed, duplex mode
- ▶ 2048 MAC addresses
- ▶ 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
- ▶ Aluminum case
- ▶ Supports Wall Mounting installation or expansion use with EMC1600 media converter chassis system

Ordering Information

EL100C	10/100Base-TX to 100Base-FX Multi Mode (SC) Media Converter
EL100T	10/100Base-TX to 100Base-FX Multi Mode (ST) Media Converter
EL100C-20	10/100Base-TX to 100Base-FX Single Mode (SC) -20Km Media Converter
EL100T-20	10/100Base-TX to 100Base-FX Single Mode (ST) -20Km Media Converter
EL100C-40	10/100Base-TX to 100Base-FX Single Mode (SC) -40Km Media Converter
EL110C	100Base-TX to 100Base-FX Multi Mode (SC) Media Converter
EL110T	100Base-TX to 100Base-FX Multi Mode (ST) Media Converter
EL110C-20	100Base-TX to 100Base-FX Single Mode (SC) -20Km Media Converter
EL110T-20	100Base-TX to 100Base-FX Single Mode (ST) -20Km Media Converter
EL110C-40	100Base-TX to 100Base-FX Single Mode (SC) -40Km Media Converter

NOTES:

* The EMC1600 Chassis is available separately.

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

Address Table Size:

- 2048 MAC addresses

Latency:

- Less than 128.9µs

Power

Input:

- Input Voltage: 12VDC

Power Consumption:

- 1.92W Max. 0.16A@12VDC

Mechanical

Casing:

- Aluminum 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-FX: 1 port

LED Indicators:

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

Diagrams

