

Opticon Multi Mode Fibre Media Converter



High Performance Low Cost Media Converter

FEATURES

- Media Conversion between 10/100BaseT and 100 Base-FX
- Link State Forwarding
- Zero Touch, Plug and Play Interface
- SNMP Management (Local & Remote)
- Led status indication
- Compact unit with integral power supply
- Simple to install & maintain
- Rack mounting kits for 2 or 18 units available

ORDERING INFORMATION

PRODUCT	100-250 VAC	-48 VDC
LMCU700 MM	LMCU700	LMCU700-DC

OVERVIEW

The LMCU700 is a media converter aimed at the fast Ethernet arena. The LMCU700 offers a low cost conversion from twisted pair 10/100BaseT to 100Base-FX offering either multi-mode or single-mode fibre options.

The LMCU700 100BaseFX 1300nm, Multimode, with up to 5km reach

Despite the quoted maximum operating distances for the LMCU700, specific installations may only operate over lower distances due to the variations in losses of different types of fibre cable, the use of connecting fibre cables, or patch panels. When operating over 50% of the maximum distances it is advisable to calculate all fibre optic connector and cable losses and compare these with the fibre optic loss budget specified for the product.

SPECIFICATIONS

100Base-FX Fibre Interface

Port	IEEE802.3u 100Base-FX
Interface	Dual SC Single-mode
Wavelength	1300nm
Data rate	125Mbps

100Base-FX Multi-mode

Tx power	-19 to -14 dBm
Max Rx input power	0 dBm
Rx sensitivity	-30 to -14 dBm
Optical loss budget	11 dB (up to 5km)

10/100BaseT Electrical Interface

Port	IEEE802.3u
	10/100BaseT with auto-negotiation
Interface	RJ45 (Auto Crossover MDI/MDIX)
Operating modes	Auto Negotiate, 10M, 100M
	Full Duplex, Half Duplex
LEDs	Link, Activity

The LMCU700 is a switching media converter operating in store and forward mode. The LMCU700 supports auto-negotiation, and auto MDI/MDIX cross-over switching on the copper interface.

To ensure reliable operation, the LMCU700 supports Link State Forwarding, whereby a fault on the fibre will automatically force a link down on the copper port to indicate to the attached device that there is a link problem.

As standard, the 100Base-FX interface is presented using duplex SC fibre transceivers. Other options such as ST and FC/PC are available on request.

There is a choice of 100-250 VAC or -48 VDC integrated power supplies. Rack mounting accessory units are available to mount either 2 or 18 LMCU700 modules in a 19" telecomms rack.

Compliance & Approvals

Safety	EN60950, IEC-60825-1 (Class I Laser Eye Safety)
EMC	EN55022, EN50082
Environment	
Temp	0 - 50 deg C
Humidity	0 - 95% RH, non-condensing
Pressure	86 - 106 KPA
Storage Temperature	-40 to 100 deg C
Power supply	
-48VDC	-36 to -72VDC, 150 - 85mA
AC Mains	100 - 250VAC, 50 - 60 Hz 60 - 25mA, IEC connector
Power Consumption	6 watts approx when operating
Packaging	
Type	Modem, 1U high without feet
Dimensions (W x D x H mm)	
Rackmount	202 x 132 x 44 (without feet)
Tabletop	202 x 132 x 48 (with feet)