1. Description

The Delock 10/100 Mb/s Fast Ethernet Media Converter series is designed to extend a copper based Fast Ethernet network via fiber cable to a maximum distance up to 20 km. The 10/100 Mb/s Fast Ethernet Media Converter series is fully compliant with IEEE802.3, IEEE802.3U, 10/100Base-TX, and 100Base-FX standards. The installation and operation procedures are simple and straightforward. Operation status can be locally monitored through a set of diagnostic LEDs located in the front panel.

2. Package content

- Media Converter
- AC-DC Power Supply
- User Manual

3. Installation

- Fiber interface

Connect a fiber cable from the media converter to the fiber network. The fiber connections must be matched - transmit socket to receive socket, the TX, RX fiber cable must be paired at both ends.

- TP interface

Connect a TP cable from the 10/100BASE-T network to the RJ-45 port on the media converter.

- Power

Connect the power adapter to the media converter and check that the Power LED lights up. The TP-LINK/ACT and FP-LINK/ACT LEDs will light up when all the cable connections are correctly installed.

4. LED Description

LED indicator lamps serve as device monitoring and troubleshooting display. The following is the explanation for each LED indicator lamp.

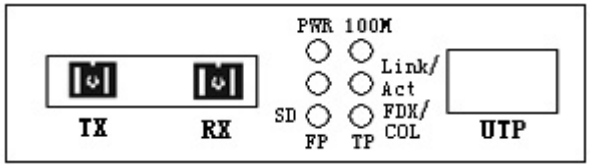

Fig. 1: Front panel for dual fiber media converter

LED	Status	Description
PWR	On	Power supply is normal
	Off	Check power supply
100M	On	TP Port Link speed is 100 Mb/s
	Off	TP Port Link speed is 10 Mb/s
TP Link/Act	On	TP Link connected
	Blink	Data transmission
	Off	TP Link fail
FP Link/Act	On	Fiber Port Link connected
	Blink	Data transmission
	Off	Fiber Port Link fail
FDX/ COL	On	TP Port works in full duplex mode
	Off	TP Port works in half duplex mode
SD	On	Fiber Port signal detected
	Off	Fiber Port signal not detected

5. DIP Switch settings

The DIP switch can be used to configure the TP and fiber interfaces. Top position is OFF, low position is ON. The default configuration is all DIP switches set to OFF.

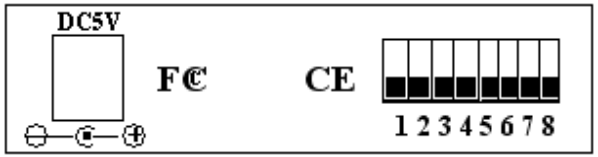

Fig. 2: Back panel for dual fiber media converter

No.	Function	Description
1	LFP	ON: Link fault passthrough OFF: LFP disabled
2	Direct Wire	ON: Pure converter mode OFF: Store and Forward Switch
3	Fast FWD	ON: Fast Forward disabled OFF: Fast Forward enabled
4	TP_ Force	ON: Force TP speed OFF: 10/100M Autonegotiation
5	IEEE 802.3x	ON: IEEE802.3x disabled OFF: IEEE802.3x enabled
6	Speed_Mode	ON: 10M OFF: 100M
7	Duplex_Mode	ON: TP Port half duplex OFF: TP Port full duplex
8	FX-Full	ON: Fiber Port half duplex OFF: Fiber Port full duplex

6. Technical Specifications

Function	Description
Standard Protocol	IEEE802.3 10Base-T standard IEEE 802.3u 100Base-TX/FX standard
Connector	one RJ-45 connector one SC or ST duplex fiber connector
TP cable	Cat.3 UTP cable or better
Operation mode	full duplex mode or half duplex mode
Power supply	+5 V DC 1 A
Environmental temperature	0 ℃ ~ 55 ℃
Relative humidity	5 % ~ 80 %, non-condensing
Dimensions	ca. 26 mm x 70 mm x 95 mm

7. Ordering Information

Delock No	SC: 86215 ST: 86229	SC: 86216 ST: 86228
	Singlemode Media Converter	Multimode Media Converter
Fiber	9/125,10/125 µm	50/125,62.5/125 µm
Ptx dBm	-15 ~ -8	-22 ~ -12
SEN dBm	≤ -38	≤ -30
Overload dBm	≥ 0	≥ -3
Distance	≤ 20 km	≤ 2 km

Safety Instructions:

1. This product is suitable for indoor application only.
2. Put on the dust cover of fiber interface when not used.
3. It is forbidden to stare at the TX fiber-transfer end with naked eyes.

Declaration of conformity

Products with a CE symbol fulfill the EMC directive (2004/108/EC), which were released by the EU-commission.

The declaration of conformity can be downloaded here:

http://www.delock.de/service/conformity

WEEE-notice

The WEEE (Waste Electrical and Electronic Equipment) directive, which became effective as European law on February 13th 2003, resulted in an all out change in the disposal of disused electro devices. The primarily purpose of this directive is the avoidance of electrical waste (WEEE) and at the same time the support of recycling and other forms of recycling in order to reduce waste. The WEEE-logo on the device and the package indicates that the device should not be disposed in the normal household garbage. You are responsible for taking the disused electrical and electronical devices to a respective collecting point. A separated collection and reasonable recycling of your electrical waste helps handling the natural resources more economical. Furthermore recycling of electrical waste is a contribution to keep the environment and thus also the health of men. Further information about disposal of electrical and electronical waste, recycling and the collection points are available in local organizations, waste management enterprises, in specialized trade and the producer of the device.

Rev.1

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10/100 Mb/s Fast Ethernet Media Converter User Manual

Product-No: 86215 / 86216 / 86228 / 86229

www.delock.com