Instruction Manual

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Gigabit Ethernet to Multi Mode LC/SC Fiber Media Converter - 550m

ET91000LC2 / ET91000SC2

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Packaging Contents

- 1 x Fiber Media Converter
- 1 x Universal Power Adapter
- 3 x Power Adapter Plug (NA/ UK/ EU)
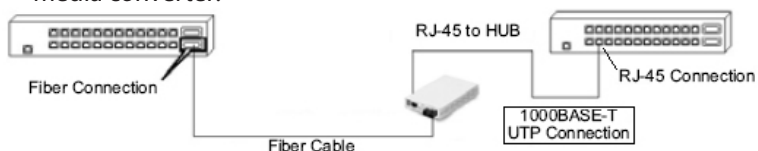- 1 x Instruction Manual

System Requirements

- 1000BASE-T compatible Ethernet network equipment
- RJ45 terminated UTP Cat5e or better Ethernet cable
- 1000BASE-LX/SX compatible fiber optic network equipment
- LC or SC terminated multi mode fiber optic cable
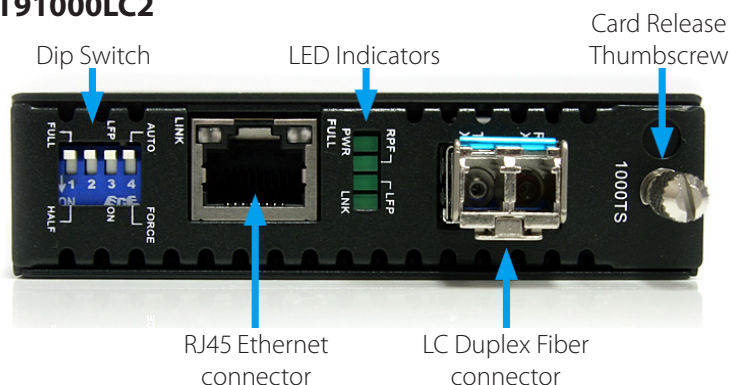- Available AC electrical outlet

Installation

1. Make sure the DIP switches are set appropriately for your network configuration (see "DIP Switch Settings" section for details).
2. Connect the fiber optic network cable from a computer/switch/media converter to the LC/SC connector on the media converter.
NOTE: When connecting the fiber cable, make sure to connect the Tx (transmit) terminal on one end, with the Rx (receive) terminal on the other end.
3. Connect a UTP Ethernet cable, from a computer/switch to the RJ45 jack on the media converter.
4. Connect the power adapter to the media converter.
5. The following example illustrates the connection scheme when connecting from a 1000BASE-T Ethernet port of a hub/switch to a 1000BASE-SX/LX port of another hub/switch, through the fiber media converter:
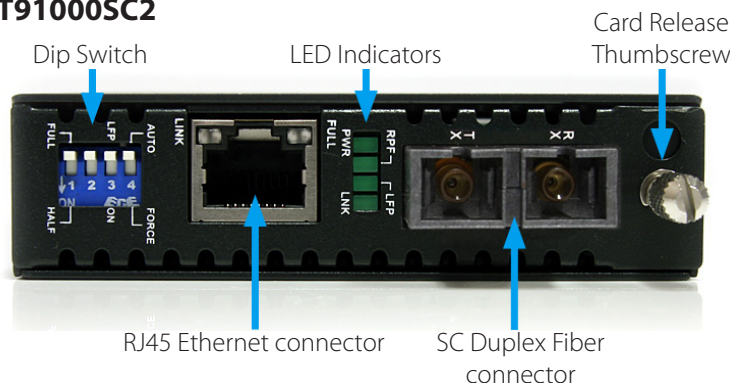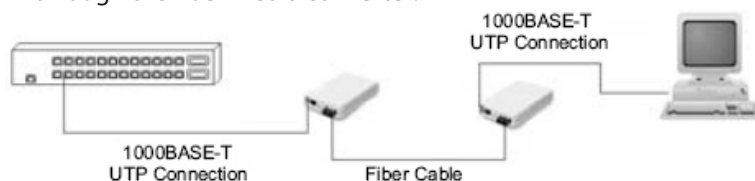
ET91000LC2

Dip Switch — LED Indicators — Card Release Thumbscrew

RJ45 Ethernet connector — LC Duplex Fiber connector

*actual product may vary from photos

ET91000SC2

Dip Switch — LED Indicators — Card Release Thumbscrew

RJ45 Ethernet connector — SC Duplex Fiber connector

Rear View (ET91000LC2 / ET91000SC2)

DC Power connector

Ground point (optional)

6. The following example illustrates the connection scheme when connecting from a 1000BASE-T Ethernet port on a hub/switch to a 1000BASE-T Ethernet Network Interface Card (NIC) in a computer through the fiber media converter:

Manual Revision: 01/20/2012

DIP Switch Settings

Full/ Half:

Ethernet Duplex mode will be configured for Full or Half.

LFP:

Link Fault Pass-through will pass a link failure to the Ethernet side, if a link failure is encountered on the fiber side and vice versa. Otherwise, the Ethernet side will continue to show no link failures, even if the fiber side has no link.
(OFF = Not active, On = Active)

Auto/Force:

Auto negotiate duplex mode, or force Full/Half via DIP switches.

LED Status

LED	Name	Status	Description
PWR	Power	ON	Unit is powered
		OFF	Unit is not powered
RPF	Remote Power Failure	ON	Remote Power Fail
		OFF	Remote Power Normal
LNK	Fiber Link	ON	Fiber link is detected
		OFF	Fiber link is not detected
		Blink	Fiber activity
LFP	Link Fault Pass-through	ON	LFP Mode enabled
		OFF	LFP Mode disabled

Specifications

	ET91000LC2	ET91000SC2
Supported Standards	IEEE 802.3ab, IEEE 802.3z	
Connectors	1 x RJ45 Ethernet female 2 x LC Fiber female 1 x DC Power	1 x RJ45 Ethernet female 2 x SC Fiber female 1 x DC Power
Compatible Fiber Type	Multi Mode	
Optical Wavelength	850 nm	
Maximum Distance	550 m (1804 ft)	
Duplex Modes	Full/Half	
Auto MDIX	Yes (Ethernet)	
Power Adapter	12V DC, 1000mA, center positive, type M plug	
Power Consumption	< 4W	
Enclosure Material	Metal	
Operating Temperature	0°C ~ 60°C (32°F ~ 140°F)	
Storage Temperature	-10°C ~ 70°C (14°F ~ 158°F)	
Humidity	10% ~ 90% RH	
Dimensions (LxWxH)	160.0mm x 95.0mm x 20.0mm	
Weight	600g	

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

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