UCT6301-SC

Gigabit Ethernet UTP/STP to Fiber Converter

FEATURES

- Support 1000Base-T and 1000Base-SX/LX

- Complies to IEEE802.3z/AB 1000base-T/SX/LX standards

- Twisted pair CAT 5 cable and up to 100m

- Standard SC connector fiber interface

- SC single mode for 5Km and 50Km optional

- External power adapter

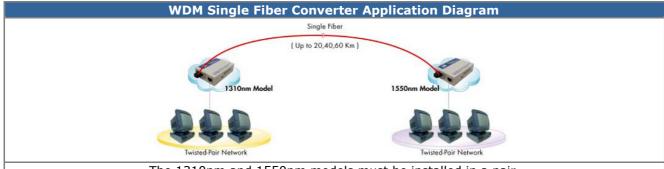- Standalone or slide in to 19" chassis

OVERVIEW

Gigabit converter supports two types of media for network connections: 1000Base-T UTP and 1000Base-SX or LX fiber. The media converter is used to convert one type media signal to other type equivalent that allows two types of segments to be connected easily and inexpensively. This converter can be used as a standalone unit or as a slide-in module to the 19" converter rack (up to 10 units) for use at a central wiring closet.

Twisted-pair cabling is limited of cable length and can be expand with the fiber converter to meet long distance connection requirement. The other benefits to convert from twisted-pair cable to fiber optic is the immunity to electrical and magnetic interference is free. There are single mode fiber and multi mode fiber applicable by choosing proper models.

SPECIFICATIONS

Hardware Specifications	
Standards	IEEE802.3z/AB 1000base-T/SX/LX
Twisted-Pair Connector	UTP port with RJ-45 connector
Fiber Port Connector	UCT6301-SC: one SC connector 850nm
	UCT6301-SC.S10 one SC connector 1310nm
UTP Cable	CAT 5 cable for up to 100-meter (4-pairs)
Fiber Cable	1000SX: 50/125, 62.5/125 or 100/140 μ m multi-mode
	1000LX: 8.3/125, 8.7/125, 9/125 or 10/125 μ m single- mode
Multi Mode Converter Fiber Cable Limitation	UCT6301-SC Multi mode: 220m
Single Mode Converter Fiber Cable Limitation	UCT6301-SC.S10 Single mode: 10Km
Data Transfer Rate	2000Mbps for full duplex at 1000Mbps speed
TP Flow Control	Nway auto negotiation
Fiber Flow Control	1000 full duplex at auto or force mode
LED Indicators	FX port: FX Link, FDX
	TP port: TP Link, Activity
	Power
Power Requirement	5VDC, 2A
Operating Temperature	0°- 50°C (32°-122°F)
Operating Humidity	5% - 90%, non-condensing
Dimension	26.2(H) x 70.3(W) x 94(D)mm
Certifications	CE Mark FCC Part 15 Class A

WDM Single Fiber Converter Application Diagram
The 1310nm and 1550nm models must be installed in a pair. That is to install 1310nm model at one end and 1550nm model at the other end.

ORDERING INFORMATIONS

Model	Description
UCT6301-SC	1000Base-T to 1000Base-SX Fiber Converter (SC, Multi-Mode, 220m)
UCT6301-SC.S10	1000Base-T to 1000Base-LX Fiber Converter (SC, Single-Mode, 10Km)

EUSSO Technologies, Inc. is a dedicated data communication and networking company. With professional experiences in design, production, marketing and service support, we deliver the full range networking products including Gigabit Ethernet, Fiber Optic, Wireless LAN, Switches, Hubs, LAN cards, PCMCIA adapters, Converter, Transceivers. As well as Internet Telephony Gateway, Print Servers, Internet Sharing Servers and many others.

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