EUSSO
Technologies

UCT6120-ST/SC/SC.S

UTP to Fiber Converter
10/100Base-TX to 100Base-FX

FEATURES

- Complies with IEEE802.3, IEEE802.3u standard

- Supports NWay protocol for speed (10/100Mbps) and duplex mode (Half/Full) detection

- Wire-speed packet filtering and forwarding rate

- Store-and-forward architecture filters fragment & CRC error packets

- CAT 5 UTP cable up to 100 meters

- Standard SC/ST multimode fiber interface

- Optional SC single mode for longer distance

OVERVIEW

IEEE802.3u Ethernet supports two types media for network connection such as 10/100Base-TX and 100Base-FX. The bridge media converter is designed with a switch controller and buffer memory that connects two types segments operation smoothly. A special designed feature LFP (Link Fault Pass Through) enhances the TP-Fiber link integrity and conformity. Either one of TP or Fiber port is in link-fail state, the LFP converter forces the other port to be at link-disabled state. 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.

The UCT6120 family is a Fast Ethernet 100Base-TX or Ethernet 10Base-T to 100Base-FX fiber converter. It features one STP RJ-45 port and one port to fiber optic cabling. UTP Nway auto-negotiation set UTP speed and full- or half-duplex mode operation. Full duplex cabling provides bandwidth of up to 200Mbps and allows the transmission distance up to 2 Km over multimode fiber and up to 100Km over single mode fiber.

SPECIFICATIONS

Software Specifications	
Standards	IEEE802.3u 100Base-TX/100Base-FX IEEE802.3 10Base-T
UTP Cable	CAT 5 cable for 10/100Mbps and up to 100-meter
Fiber Cable	50/125, 62.5/125 or 100/140µ m multi mode 8.3/125, 8.7/125, 9/125 or 10/125µ m single mode
LED Indicators	Power TP port: Link/Activity, Speed FX port: Link/Activity, FDX/Col
Data Transfer Rate	100Mbps: 148,800 pps 10Mbps: 14,880 pps
Flow Control	IEEE802.3x for full duplex Back pressure flow control for half duplex

Hardware Specifications	
Power Requirement	1A @ 5VDC from AC-DC Adapter 0.5A @ 5VDC from USB port
Dimension	26.2 (H) x 70.3 (W) x 94 (D) mm
EMC Complaint	FCC Part 15 Class A and CE Mark
Environment	Operating Temperature: 0° ~ 50°C Storage Temperature: -25° ~ 70°C Humidity: 5% ~ 90% non-condensing

ORDERING INFORMATIONS

Model	Description
UCT6120-ST	UTP to Fiber Converter 10/100M to 100Base-FX Multi-mode (ST: 2Km)
UCT6120-SC	UTP to Fiber Converter 10/100M to 100Base-FX Multi-mode (SC: 2Km)
UCT6120-SC.S20	UTP to Fiber Converter 10/100M to 100Base-FX Single-mode (SC: 20Km)
UCT6120-SC.S40	UTP to Fiber Converter 10/100M to 100Base-FX Single-mode (SC: 40Km)
UCT6120-SC.S60	UTP to Fiber Converter 10/100M to 100Base-FX Single-mode (SC: 60Km)
UCT6120-SC.S80	UTP to Fiber Converter 10/100M to 100Base-FX Single-mode (SC: 80Km)

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