Media Converter

UT-021XE Enhanced 10/100Base-TX to 100Base-FX Converter

Product Introduction & Benefits

The UT-021XE Series Media converter is a compact, cost-effective and feature-packed solution for expanding or extending an existing Ethernet/Fast Ethernet network. For total reliability the converter boasts enhanced features such as remote and local loop back testing, auto-negotiation, and link fault signaling, it also features seven DIP switches for manual activation of the enhanced features. This gives the UT-021XE Series the ability to be quickly integrated into a network configuration.

The UT-021XE Series can support a variety of fiber optic cables and connectors. Whether data is transmitted over multi-mode, single mode or long-haul single mode fiber optic, or operating in full or half-duplex mode, the UT-021XE is capable of handling the various cable type configurations.

FCC Class A | CE Approval

Ordering Information :

UT-0214E :
Enhanced 10/100Base-TX to 100Base-FX Multi-mode Media Converter (ST Connector)

UT-0216E :
Enhanced 10/100Base-TX to 100Base-FX Multi-mode Media Converter (SC Connector)

UT-0216E-SM20/30/60 :
Enhanced 10/100Base-TX to 100Base-FX Single Mode Media Converter (SC Connector, 20/30/60km)

UT-0215ETS-20/40 :
Enhanced 10/100Base-TX to 100Base-FX Single Fiber Media Converter, Transmitter (WDM Simplex SC Connector)

UT-0215ERS-20/40 :
Enhanced 10/100Base-TX to 100Base-FX Single Fiber Media Converter, Receiver (WDM Simplex SC Connector)

Main Features:

- Ideal for Telco and Cable Network application
- Extends distances ranging from 2km (multi-mode fiber) to 60km (single mode fiber)
- NWay Auto-negotiation support on RJ-45 port
- DIP switch manual setting on 10 or 100 and haft or full duplex in case fo auto-negotiation failure
- Store-and-forward at full wire speed
- Chassis compliant (intermal power supply)
- Auto MDI
- Manual setting on speed and duplex for compatibility with non auto-negotiation devices
- Link Fault Signaling LED illuminates to indicate link down
- Device DIP switches allow multiple configuration options
- Link Fault Signaling function can boot up redundant link if network is installed with primary and redundant link
- Local and remote loopback test for first time installation and trouble-shooting
- Available with external & internal power supply (AC 90-240V & DC-48V)
- FCC Class A& CE approved

Specifications :

Standard :		
IEEE 802.3	(10BASE-T Ethernet);	
IEEE 802.3u	(100BASE-TX/FX Fast Ethernet)	

Ports :		
1 x UTP, 1 x fiber optic		

Interfaces :		
UTP 100/120ohm; RJ-45 type		
Fiber optic connector: SC, ST, LC, MT-RJ or WDM Simplex SC		
(only SC type for single mode)		

Max. Distance :		
UTP:	100 meters	
Fiber:	2,000 meters	
	20,000 meters	
	30,000 meters	
	60,000 meters	

Unit LED :		
100:	Green	Illuminated when data packets are being transmitted at 100Mbps
LFS:	Red	Illuminated when a break or disruption exists in copper or fiber links
LNK:	Green	Illuminated indicates receiving link pulses from compliant device
ACT:	Green	Flashing to indicate data packets being sent / received
FDX:	Amber	Illuminated to indicate unit is in full duplex mode
COL:	Amber	Flashing to indicate collision
PWR:	Green	Illuminated to indicate unit is operating under normal power

Power :		
AC power adapter; 12V DC @ 0.8A		
Frequency:	47Hz to 63Hz	

Environment :		
Operating:	Temperature:	0˚C to 50 C
	Relative Humidity:	10% to 80% Non-condensing
Storage:	Temperature:	-25 C to 70˚C
	Relative Humidity:	5% to 90% Non-condensing

Emissions :		
FCC Part 15 of Class A & CE approved		

Dimensions :		
109.2 x 73.8 x 23.4mm (L x W x H)		

Weight :		
158g		

Switch :		
DIP1	Enables/disables auto-negotiation	
DIP2	Copper port(RJ45) duplex mode; full duplex or half-duplex	
DIP3	Copper port(RJ45) data bit rate; 10Mbps or 100Mbps	
DIP4	Fiber port duplex mode; full duplex or half-duplex	
DIP5	Enables/disables link fault signaling (LFS)	
DIP6	Enables/disables local loop back (LLBK)	
DIP7	Enables/disables remote loop back (RLBK)	

Product Application

The following illustrates typical applications for the UT-021XE series. The actual distances will depend on several factors including the quality of cables used and the terminal equipment employed.

UT-021XE

Fast Ethernet Switch   Fast Ethernet Switch

Converter   Converter   Server

Fiber
UTP/STP
Coaxial

UTP100m
Multi-mode 2,000m.
Long Haul Single Mode 60,000m
Half-dulpex Multi-mode 412m

LINK
Link for the perfect Cabling