F.O. MEDIA CONVERTER

10/100 SINGLE F.O. CONVERTER

UT-0215EATS-20

UT-0215EARS-20



Scope of Application

The UT-0215EA Series is specifically designed for medium and large workgroups which demand extended reach, and engineered to offer a solution for networks that are ready to expand or migrate from copper-based to Fiber-based networks on Ethernet/Fast Ethernet network.

The converter boasts enhanced with such features as remote loopback testing, auto-negotiation, and link fault signaling for total reliability, It also features DIP switches for manual activation of the enhanced features. This gives the UT-0215EA Series the ability to be quickly integrated into a network conguration.

The UT-0215EA Series use wavelength of 1310nm/1550nm with single core of fiber optic to transmit and receive for optical data communications that can extend distances up to 20 km with single-mode as well as offering flexibility in the migration to 100Base-FX networks. Several converters can be simultaneously installed by using the UT-3012 12-slot 19" Rack-mount Chassis converter chassis.

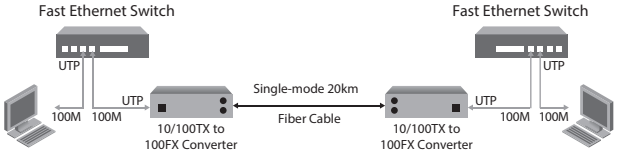
Features Highlight

- 1 x 10/100Base-TX, RJ45 port (Support Full/Half duplex operations)
- 1 x 100Base-FX with simplex SC
- Auto MDI/MDI-X and Auto-negotiation (NWay or auto-sensing) on RJ45
- Extends distance for Fast Ethernet network up to 20km with single-mode under full duplex
- Support packet size up to 9KB
- Enhance with DIP-Switches
- Support to transmit VLAN packets (IEEE802.1q)
- Support to transmit Quality of Service (IEEE802.1p)
- Support to transmit STP packets (IEEE802.1d)
- Built-in flow control (IEEE 802.3x)
- LFS with ALM's LED to indicate link failure status and support for redundant link to be working with L2 managed switch
- LEDs for device status
- Equipped with 12VDC, 1A AC adapter
- Support to install with 12-slot Converter Chassis (UT-3012)

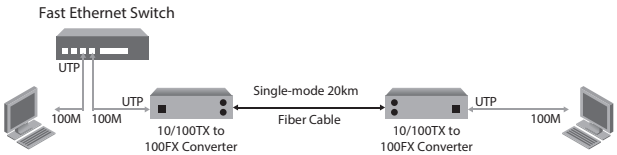
Applications

The converter is functioning as a high-speed bridge between switches creating increased capacity for each user (node) on the local area network. It is providing a 100Mbps full duplex link to a variety of Fast Ethernet network devices within a LAN.

Switch ⟷ CONVERTER ⟷ CONVERTER ⟷ Switch



Switch ⟷ CONVERTER ⟷ CONVERTER ⟷ Laptop



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Technical Data

Standards	
IEEE 802.3	10Base-T
IEEE 802.3u	100Base-TX, 100Base-FX
Fiber Optic	
Port	Simplex SC
Distance	Up to 20km for Single-mode
LAN (RJ45)	
Speed	Up to 100Mbps
Max. Distance (meter)	100
Power	
Power Input	12VDC, DC Jack
Power Consumption	2.8 Watt
Power Adapter	100-240VAC, 50-60Hz, 12VDC/1A Adapter
Mechanical and Environment	
Housing	Metal
Dimensions (W x H x D)	73.8 x 23.4 x 109.2 mm
Weight	138g
Mounting	Desktop, Chassis Compatible
Operating Temperature	0°C to 50°C
Storage Temperature	-25°C to 70°C
Operating Humidity	10% to 95% RH (non-condensing)
Storage Humidity	5% to 95% RH (non-condensing)
LED Panel	PWR, Fiber, RJ45, 100, LNK/ACT, ALM (LFS)

Optical Characteristics	UT-0215EATS-20	UT-0215EARS-20
Transmit Power	-14 to -8 dBm	-14 to -8 dBm
Receiver Sensitivity	-31 dBm	-31 dBm
Wavelength	TX:1310nm/RX:1550nm	TX:1550nm/RX:1310nm

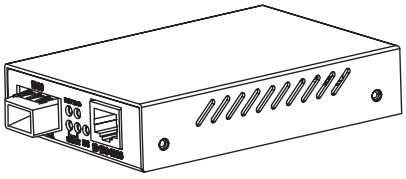
DIP-Switches	
LFS	Link Fault Signaling function
LLB	Local Loopback function
RLB	Remote Loopback function
Certications	
EMI	FCC Part 15 of Class A & CE Approved
	EN 55032 Class A
	EN 61000-3-2
	EN 61000-3-3
EMS	EN 55024
	IEC/EN 61000-4-2 (ESD)
	IEC/EN 61000-4-3 (RS)
	IEC/EN 61000-4-4 (EFT)
	IEC/EN 61000-4-5 (Surge)
	IEC/EN 61000-4-6 (CS)
	IEC/EN 61000-4-8 (PFMF)
	IEC/EN 61000-4-11
Green Product	RoHS

Ordering Information	
UT-0215EATS-20	10/100 SINGLE F.O. CONVERTER, SC (SM) 20 km Transmitter
UT-0216EARS-20	10/100 SINGLE F.O. CONVERTER, SC (SM) 20 km Receiver

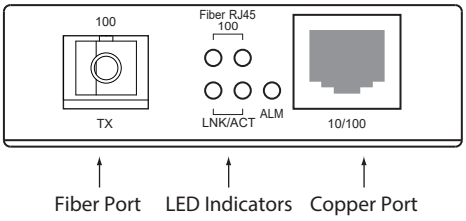
Note :

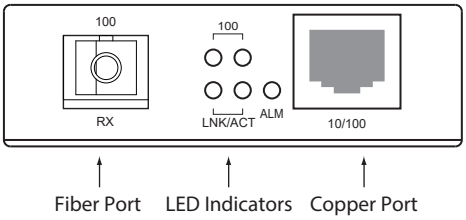
** Specications subject to change without notice.*

Drawing

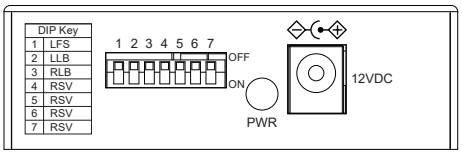


Converter with Single SC and RJ45 connectors





Rear Panel View with DIP Switches



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