F.O. MEDIA CONVERTER

10/100/1000 HARDENED CONVERTER, SFP Slot

UT-1310HA

Scope of Application

UT-1310HA Gigabit Media Converter is specifically designed for large workgroups such as enterprise or campus environments which demand maximum bandwidths, and engineered to offer a solution for networks that are ready to expand or migrate from copper-based Gigabit triple speed to Fiber-based Gigabit network. Along with the capability of converting media transmissions, UT-1310HA features intelligent functions like Auto MDI/MDIX, LFS (Link Fault Signalling), LEDs, DIP switches etc to provide easy plug-and-play, continuous monitoring and thereby minimize downtime for mission-critical networks.

Featuring an RJ45 port and an SFP slot, UT-1310HA converts 10/100/1000Base-T network to 1000Base-SX/LX fiber network or vice versa by easily integrating copper with ber and allowing them to operate smoothly. This gives the utmost flexibility in installing various connections over fiber and extend the reach of Gigabit Ethernet connectivity over single-mode or multi-mode ber via SFP module.

UT-1310HA offers you the most economic and cost-effective solution to meet your need for long distance transmissions up to 120km.

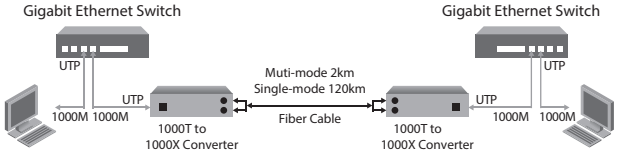
Features Highlight

- 1 x 10/100/1000Base-T, RJ45 port (Support Full/Half duplex operations)
- 1 x 100Base-FX/1000Base-X with SFP Slot
- Auto MDI/MDI-X and Auto-negotiation (NWay or auto-sensing) on RJ45
- Extends distance for Gigabit Ethernet network (based on SFP types)
  - up to 2km with multi-mode
  - up to 120km with single-mode
- Support packet size up to 9KB
- Enhanced with DIP-Switch for Link Fault Signaling, Loop-back Testing and SFP dual speed setting
- Packet Buffer: 512KB, MAC Table Size: 1K
- 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)
- Support Hot-swappable for a working system without interrupting its operation
- 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, 1.5A AC adapter
- Operating temperature from -10°C to 60°C

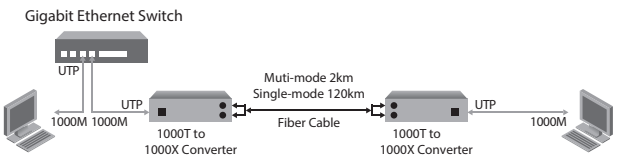
Applications

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 1000Mbps full duplex link to a variety of Gigabit Ethernet network devices within a LAN.

Switch ⟷ CONVERTER ⟷ CONVERTER ⟷ Switch



Switch ⟷ CONVERTER ⟷ CONVERTER ⟷ Laptop



Technical Data

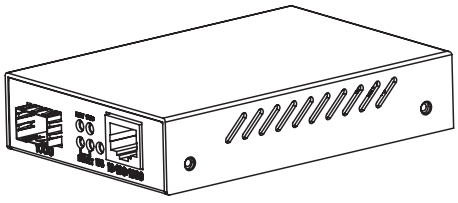
Standards	
IEEE 802.3	10Base-T
IEEE 802.3u	100Base-TX, 100Base-FX
IEEE 802.3ab	1000Base-T
IEEE 802.3z	1000Base-X (SX/LX)
IEEE 802.3x	Flow Control
Fiber Optic	
Port	1 x 100Base-FX/1000Base-X with SFP Slot
Connector Type	LC
Distance	Up to 120km (based on SFP types)
LAN (RJ45)	
Port	1 x 10/100/1000Base-T
Speed	Up to 1000Mbps
Max. Distance (meter)	100
Power	
Power Input	12VDC, DC Jack
Power Consumption	6 Watt
Power Adapter	100-240VAC, 50-60Hz, 12VDC/1.5A Adapter
Mechanical and Environment	
Housing	Aluminum (IP30 Protection)
Dimensions (W x H x D)	73.8 x 23.4 x 109.2 mm
Weight	150g
Mounting	Desktop, DIN-Rail, Wall-mounted
Operating Temperature	-10°C to 60°C
Storage Temperature	-40°C to 85°C
Operating Humidity	5% to 95% RH (non-condensing)
Storage Humidity	5% to 95% RH (non-condensing)
LED Panel	PWR, Fiber, RJ45, 1000, LNK/ACT, ALM (LFS)

DIP-Switches	
LFS	Link Fault Signaling function
LLB	Local Loopback function
RLB	Remote Loopback function
1000	100FX SFP tranceiver
Certications	
EMC	FCC Part 15 of Class A & CE Approved
	EN 55032 Class A
	EN 61000-3-2
	EN 61000-3-3
	EN 55024
	IEC/EN 61000-4-2 (ESD) Level 4
	IEC/EN 61000-4-3 (RS) Level 2
	IEC/EN 61000-4-4 (EFT) Level 2
	IEC/EN 61000-4-5 (Surge) Level 3
	IEC/EN 61000-4-6 (CS) Level 2
	IEC/EN 61000-4-8 (PFMF) Level 2
	IEC/EN 61000-4-11
Green Product	RoHS
Ordering Information	
UT-1310HA	10/100/1000 HARDENED CONVERTER, SFP Slot

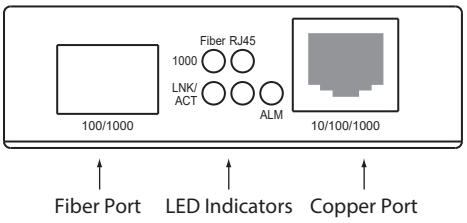
Note :

** Specications subject to change without notice.*

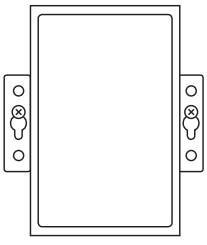
Drawing



Front Panel View



Wall-mounted



DIN-Rail-mounted

Rear Panel View with DIP Switches