

Product Introduction & Benefits

The **UT-1310** media converter is specifically designed to offer fiber advantages for mission-critical networks like Telco/ISP backbones, cable operators, banking and enterprise networks. The **UT-1310** can reduce network downtime and increase Quality of Service levels. The converters are completely transparent when installed, so the network performs exactly the way it would do normally – only now, it can incorporate both copper and fiber mediums.

This flexibility in cabling allows network managers to put fiber cables anywhere within a network without changing the arrangement of the copper-based Gigabit segments. Their compact size allows the converters to be wall-mounted to save space. Several converters can be simultaneously installed by using the UT-3004 4-slot and UT-3012 12-slot, 19" rack-mountable chasses.

The **UT-1310** takes advantage of intelligent connection technology to support Auto-negotiation, thereby eliminating the hassle of manually configuring or monitoring settings. This ensures plug-n-play operability.



Main Features:

Standards:

Complies with IEEE 10/100Base-TX, IEEE 802.3ab 1000Base-T and IEEE 802.3z 1000Base-SX/LX standards

Interface:

One 10/100/1000 Mbps Ethernet port

Auto MDI/MDI-X support on RJ-45 port

One SFP slot for Gigabit links

Extends distances up to 220m for multi-mode SX (110km with long-haul single-mode) under full-duplex mode

Management:

Alarm LED illuminates to indicate link failure

Status LEDs for easy monitoring of device's status

Mechanical & Environmental:

External power supply

Chassis-compliant (internal power supply)

FCC Class A & CE approved



Product Introduction & Benefits

The **UT-1312** media converter is specifically designed to offer high-speed recovery (<10ms) and fiber advantages for mission-critical networks like Telco/ISP backbones, cable operators, banking and enterprise networks. The **UT-1312** can minimize network downtime and increase Quality of Service levels. The converters are completely transparent when installed, so the network performs exactly the way it would do normally – only now, it can incorporate both copper and fiber mediums.

This flexibility in cabling allows network managers to put fiber cables anywhere within a network without changing the arrangement of the copper-based Gigabit segments. Their compact size allows the converters to be wall-mounted to save space. Several converters can be simultaneously installed by using the UT-3004 4-slot or UT-3012 12-slot, 19" rack-mountable chasses.

The **UT-1312** takes advantage of intelligent connection technology to support Auto-negotiation, thereby eliminating the hassle of manually configuring or monitoring settings. This ensures plug-n-play operability.



Main Features:

Standards:

Complies with IEEE 10/100Base-TX, IEEE 802.3ab 1000Base-T and IEEE 802.3z 1000Base-SX/LX standards

Interface:

One 10/100/1000 Mbps Ethernet port

Supports Auto MDI/MDI-X on RJ-45 port

Two SFP slots for Gigabit links

Extends distances up to 220m for multi-mode SX (110km with long-haul single-mode) under full duplex mode

Redundancy:

Fail-over on dual fiber links

Issuing an alarm if a fiber link fails

Link Fault Signaling occurs when copper link or BOTH fiber links fail

Automatically switches back to the primary fiber link if it recovers after a failure and fail-over to the redundant fiber link

Management:

Alarm LED illuminates to indicate link failure

Status LEDs for easy monitoring of device's status

Mechanical & Environmental:

External power supply

Chassis-compliant (internal power supply)

FCC Class A & CE approved



UT-1312 Gigabit Redundant-link Converter

10/100/1000 to 2-slot 1000SX/LX (SFP) Converter

Specifications:

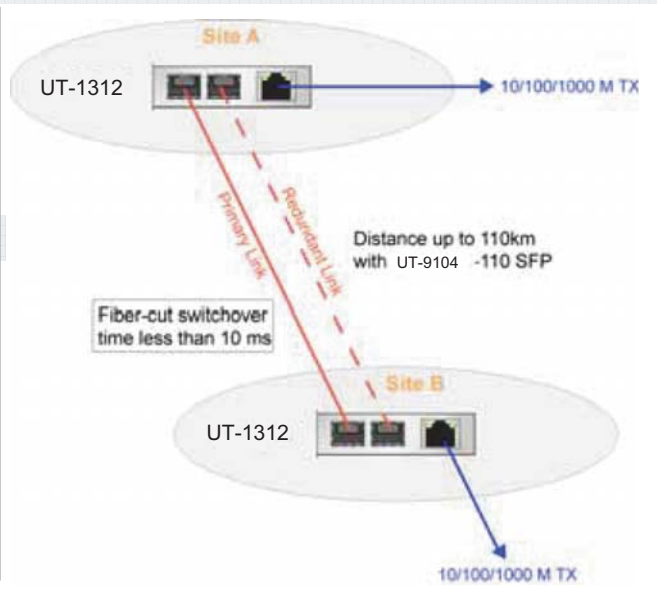
Standards:	IEEE 10/100Base-TX	MDI/MDI-X:	Auto Selection	
	IEEE 802.3ab 1000Base-T		Power:	Power Input: 12V DC @ 0.8A, external power supply adapter
	IEEE 802.3z 1000Base-SX/LX			Frequency: 47Hz to 63Hz
Connector:	1 x RJ-45	Temperature:	Operating: °C to 50°C	
	2 x Fiber		Storage: -20°C to 70°C	
Max. Distance:	UTP: 100 meters (Cat. 5/5e/6)	Humidity:	Operating: 10% to 90% RH	
	Fiber: SFP; up to 110km (single-mode)		Storage: 5% to 90% RH	
Unit LED:	PWR: Illuminates for normal operation	Emissions:	FCC Part 15 of Class A & CE approved	
	ALM: Illuminated when failure occurs on any fiber link or on Link-Fault Signaling		Dimensions:	109.2 x 73.8 x 23.4mm (D x W x H)
	PRI: Primary link – Illuminated when receiving link pulses from compliant devices – Flashing when data packets are being transmitted / received	Weight:		160g
	RDT: Redundant link – Illuminated when receiving link pulses from compliant devices – Flashing when data packets are being transmitted / received			Dip Switches:

Applications:

The following illustrates typical applications for the UT-1312 series. The actual distances will depend on several factors, including the quality of cables used and the terminal equipment employed.

Ordering Information:

- UT-1312 :**
Gigabit Triple-Speed to 2-Slot 1000SX/LX (SFP) Converter
- UT-9104 :**
Mini GBIC, 1.25G SFP-type Multi-mode, 3.3V – 500m
- UT-9104 - 10/30/50/70/110:**
Mini GBIC, 1.25G SFP-type Single-mode, 3.3V – 10 / 30 / 50 / 70 / 110km



(August 2006)
Specifications subject to change without prior notice.

UT-1310 Gigabit Triple-Speed Converter

10/100/1000 to 1000SX/LX (SFP) Converter

Specifications:

Standards:	IEEE 10/100Base-TX IEEE 802.3ab 1000Base-T IEEE 802.3z 1000Base-SX/LX	MDI/MDI-X:	Auto Selection
Connector:	1 x RJ-45 1 x Fiber	Power:	Power Input: 12V DC @ 0.8A, external power supply adapter Frequency: 47Hz to 63Hz
Max. Distance:	UTP: 100 meters (Cat. 5/5e/6) Fiber: SFP; up to 110km (single-mode)	Temperature:	Operating: 0°C to 45°C Storage: -20°C to 70°C
Unit LED:	PWR: Illuminated for normal operation ALM: Illuminated when failure occurs on fiber or copper link LNK/ACT: Fiber link – Illuminated when receiving link pulses from compliant devices – Flashing when data packets are being transmitted / received	Humidity:	Operating: 10% to 80% RH Storage: 5% to 90% RH
		Emissions:	FCC Part 15 of Class A & CE approved
		Dimensions:	109.2 x 73.8 x 23.4mm (D x W x H)
		Weight:	158g
		Dip Switches:	DIP 1 – LFS: Enable/Disable Link-Fault Signaling (LFS)

Applications:

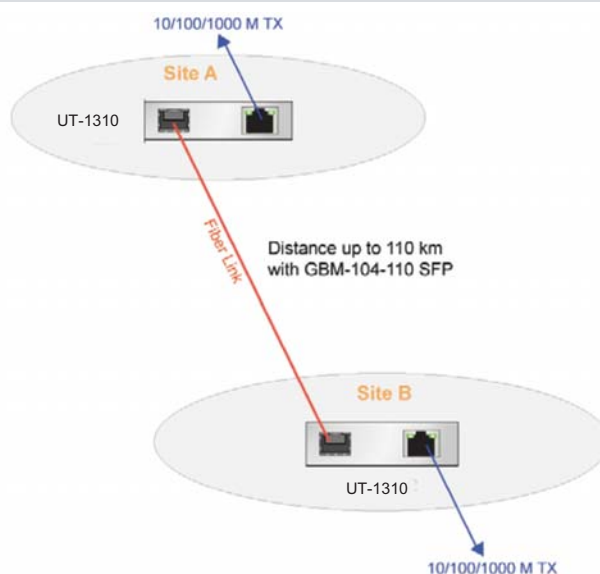
The diagram on the right illustrates a typical application for the UT-1310 converter. The actual distances will depend on several factors, including the quality of cables used and the terminal equipment employed.

Ordering Information:

UT-1310 :
Gigabit Triple-Speed to 1000SX/LX (SFP) Converter

UT-9104 :
Mini GBIC, 1.25G SFP-type Multi-mode, 3.3V – 500m

UT-9104 - 10/30/50/70/110:
Mini GBIC, 1.25G SFP-type Single-mode, 3.3V – 10 / 30 / 50 / 70 / 110km



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