10/100 Mbps Auto-Sensing Fiber Optic Ethernet Transceiver

The DS-108TR non-managed copper-to-fiber Ethernet/Fast Ethernet media converters make the transition from copper to fiber more affordable and easier than ever. Designed as stand alone units that can be placed virtually anywhere, the new converters boast an exceptionally compact form factor and an external universal power supply.

The DS-108TR modules come standard with a duplex autosensing 100Base-Tx port, while the modules have a 10/100Base-Tx port that supports auto-negotiation. The modules can be manually configured to accommodate either half Duplex or Full Duplex transmissions and, with the available port selection, links can be established using either crossover or straight through cabling.

A variety of multimode and singlemode 100Base-fiber ports are available, including DSC, LC and MTRJ connectors. Single fiber solutions are also available with SC-APC connectors.

Installation is quick and easy with no configuration required. Simply plug in the power, connect the data lines and the network is up and running.

The DS-108TR is ideally suited for Fiber To The Home (FTTH) applications where they can be used as CPE connecting the subscriber to the service providers Central Office. The modules can be used anywhere that Optical Ethernet service is deployed.

Features

- Supports Ethernet (100Base-Tx) and Fast Ethernet (100Base-Tx)
- Plug-and-play installation
- Multimode, singlemode and Single Fiber optics are available
- Support for speed and duplex autosensing
- Small stand alone form factor
- External universal power supply
- Available in Single Fiber version
- Available in Insert Card version

865	1310	1550	Type	Mode	Wavelength Suffix	Fiber Type	Output Power	Receiver Sensitivity	Optical Loss Budget	Range*	Conn Type
•			LED	MM	L0	50/125µ	-19 dBm	-28 dBm	8 dB	2 km	DSC
•						62.5/125µ					
	•		LED	MM	L1	50/125µ	-08 dBm	-27 dBm	19 dB	10 km	DSC
	•					62.5/125µ					
	•		Laser	SM	L2	09/125µ	-3 dBm	-27 dBm	24 dB	42 km	DSC
		•	Laser	SM	L3	09/125µ	-3 dBm	-27 dBm	24 dB	85 km	DSC

* Chromatic dispersion and additional losses should be taken into account

Data

Data rate	10/100 Mbps per channel
Connector Type	RJ-45 UTP
Interface	Ethernet IEEE 802.3 FOIRL
Bit error rate	10E^{-9}

General

Dimensions & Weight	Stand Alone: 3.5" L x 2.3" W x 1.0" H	6 oz
Operating temperature	-0° C to +50° C	
Storage temperature	-30° C to +85° C	
Humidity	0 to 95% non-condensing	
Operating voltage	12 V$_{DC}$ (200 mA)	
Vibration	Up to 5 g's	
Shock	Up to 12 g's	

Diagnostics

Status monitoring	LED indicator

Accessories

RJ-45 interface cables	RJ-45 to DB

10 YEAR WARRANTY

ISO 9001:2000 CERTIFIED

CE

FCC PART 15 COMPLIANT

MADE IN THE USA

Sample Configuration

Thinnet coax cable to FILE SERVER

Fiber Optic Cable (up to 2 km @850nm MM)

Ethernet Thinnet Interface

Tx

Rx

DS-108TR

Tx

Rx

DS-108TR

Ethernet Thinnet to Fiber Optic Media Converter

Ethernet Thinnet to Fiber Optic Media Converter

Workstation