DS-109TR

1000BaseT Ethernet Transceiver

1000 Mbps Fiber Optic Ethernet Transceiver (1Gb/s)

The DS-109TR non-managed copper-to-fiber Ethernet Transceiver 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-109TR modules come standard with a duplex autosensing 1000Base-Tx port, while the modules have a 1000Base-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 1000BaseT-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-109TR 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 1000BaseT Ethernet Transceiver (1Gb/s)
- Plug-and-play installation
- Multimode and singlemode Fiber Optics are available
- Small stand alone form factor
- External universal power supply
- Available in Single Fiber version
- Available in insert card version

865	1310	1550	Туре	Mode	Wavelength Suffix	Fiber Type	Output Power	Receiver Sensitivity	Optical Loss Budget	Range*	Conn Type
•			LED	ММ	LO	50/125μ 62.5/125μ	-10 dBm	-17 dBm	7 dB	0.5 km 0.3 km	DSC
	•		Laser	MM	L1	50/125µ	-13 dBm	-20 dBm	7 dB	10 km	DSC
	•		Laser	SM	L3	09/125µ	-3 dBm	-23 dBm	20 dB	35 km	DSC

^{*} Chromatic dispersion and additional losses should be taken into account

Data (Ethernet/Serial/USB)

Data

Data rate 1000 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 9 oz

Operating temperature -0° C to $+50^{\circ}$ C Storage temperature -30° C to $+85^{\circ}$ C

Humidity 0 to 95% non-condensing

Operating voltage 5 V_{DC} (2A) 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

Optiva™ Configurable Communication Platform

Network Management

SDI & HD-SDI

Composite Video, Audio & Data

RGB/VGA/DVI

Audio/FSK/Intercom

Data (Ethernet/Serial/USB)

CATV/RF & L-Band

Optical Switching, Routing & Redundancy

Passive Multiplexing Solutions

Enclosures, Racks & Frames

Power Supplies & Accessories







MADE IN THE USA

Sample Configuration

