Managed Gigabit 2+2 Ethernet Switch

TC3340

- 2 Ports 10/100/1000Base-TX (UTP) & 1000Base-SX/LX
- Optical Redundancy (ring "self-heals" within 38 msec.)
- Ethernet Rate Limit, VLAN & QoS
- Built-In Power & Temperature Sensors
- Remote Optic Measurements (e.g. Transmit Power & Receive Power)
- Network Management (Web, SNMP, Console & Telnet)
- SM/MM & Bi-Directional SFP Optics
- Extreme-Temp (-40°C to 80°C) & Hi-Temp (-20°C to 70°C) Options
- IEC 61850-3, IEEE 1613 & NEMA TS-2
- Power: 12VDC, 24VDC, -48VDC or 115/230VAC

deal for mission critical fiber optic ring networks, the TC3340 Managed Gigabit 2+2 Ethernet Switch provides maximum reliability through its sophisticated redundant ring technology. If a fiber cable or device failure occurs, the data path automatically switches over within 38 msec. to the secondary path to maintain ring network integrity.

The TC3340 also converts 10/100/1000Base-TX (UTP) and 1000Base-SX/ LX fiber optic networks. Two copper RJ-45 ports and two SFP* slots are provided. The SFP ports support 850nm multimode and 1300/1550 single mode. The TC3340 supports distances up to 100km (single mode laser) and is available with a "one fiber, bi-directional" option to maximize fiber optic cable usage.

The TC3340 offers a wide variety of advanced networking features including rate limiting, diagnostics and security. Rate Control gives users, especially data service providers, the ability to control or limit bandwidth. For example, rates can be limited to 32Kb, 64Kb, 256Kb, 512Kb, 1Mb, 2Mb, etc.

Diagnostics include unique features such as built-in Power and Temperature monitoring sensors and remote optical measurements for Transmit Power & Receive Power. Standard diagnostics include monitoring traffic statistics, fiber ring status, alarm conditions, etc. Security features include Password Protection, Multiple User Groups and IP Aliasing.

Management is accessed via Web, SNMP, Telnet, or Serial Console. Configuration settings can be saved and loaded to simplify network administration, and firmware can be remotely upgraded. Virtual LAN (VLAN), QoS and Network Time Protocol (NTP) are supported.

The Industrial Hardened version supports temperature ranges from -40°C to 80°C and meets or exceeds all pertinent industrial environmental specifications including IEC 61850-3, IEEE 1613, NEMA TS-2, etc. Standard temperature range is -10°C to 50°C; high temperature version is -20°C to 70°C. Power redundancy is standard and source options include 12 VDC, 24VDC, -48VDC or 115/230VAC. The TC3340 is available in a standalone or wallmount version.



TC3340 Standalone Unit

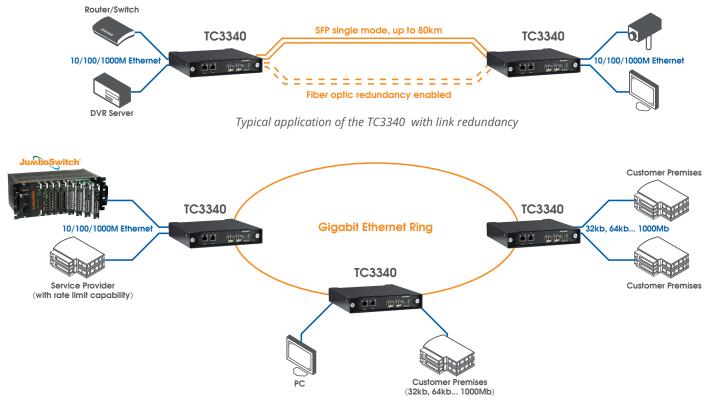


Applications

The TC3340 is a compact Gigabit Switch solution for both industrial automation and commercial networks because it offers a wide range of advanced networking features including Redundancy, Rate Limiting, Diagnostics, Security and Industrial Hardened capability. It is also used by Data Service Providers for its rate limiting; one fiber, bi-directional; and, media conversion capabilities.

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Web Site: tccomm.com



TC3340 using the one-fiber bi-directional option to form a ring network

Data Rates

.. 10/100/1000 Mbps w/ Rate Control

Optical

Transmitter	ELED/LASER*
Receiver	PIN Diode
Wavelength	850 Multimode
	0nm Single Mode
SFP Optic Connect	ors LC
Loss Budget* - 130	0/1550nm
Multimode @62.5/	125µm 15dB
Single Mode @9/12	25µm 20dB

Electrical

Connector RJ45 (10/100/1000M)
SFP: RJ45 (1000M)
Interface Ethernet

Visual Indicators

ALM, LINK, FULL, 1000M, PWR A, PWR B, VCC, DFLT

System

Bit Error Rate...... 1 in 10¹⁰ or better

Diagnostic Functions

......Traffic Statistics Transmit Power / Receive PowerTemperature

Alarm

Dry ContactNormal OPEN
Power
Standard 12VDC
Optional24VDC, -48VDC
or 115/230VAC
Consumption< 10W

Temperature

Operating – 10°C to 50°C
Hi-Temp (opt.) –20°C to 70°C
Extreme Temp (opt.) –40°C to 80°C
Storage –40°C to 90°C
Humidity95% non-condensing

Physical (Standalone Unit)

Height	(3.53 cm) 1.39"
Width	(18.13 cm) 7.14"
Depth	(16.59 cm) 6.53"
Weight	(544 gm) 1.2 lbs



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TC Communications Quality Management System is certified as being in conformity with ISO 9001:2015 by Intertek



*Contact factory for higher requirements Note: Information contained in this data sheet is subject to change without prior notice.