

“Pocket Rocket” RS-232 Async Fiber Optic Modem

Model
TC1000

- Async Data Rates up to 19.2 Kbps
- DTE/DCE Switchable
- “Active” Diagnostic LED
- Can be Signal Powered
- Multimode or Single Mode (850/1300/1550nm)
- Hardened Temperature Version (optional)
- Sturdy Compact Metal Case



The TC1000 is low in price and high in reliability. It features a DCE/DTE switch and is plug compatible with RS-232 interfaces. It will transmit asynchronous data at speeds up to 19.2 Kbps.

The TC1000 is designed for local and campus networks up to distances of approximately 4km multimode and 20km single mode. Distances can vary depending on the size and type of the fiber optic cable, number of connections and the type of fiber optic connectivity devices used in the network.

Diagnostics include an “Active” LED. A hardened temperature version (-20°C to 70°C) intended for hostile environments is optional.

The TC1000 is compatible with all popular types and sizes of fiber optic cable and is available in multimode mode (850/1300nm) or single mode (1300/1550nm). Fiber optic connectors are ST or FC. Electrical connectors are DB25 female.

For most applications, the TC1000 derives power through any of the standard EIA control signals (pins 4, 8, 20) or positive voltage line (pin 9). An external power supply (115/230VAC) may be required when signal power is not adequate to drive the TC1000.

Note: The term “Pocket Rocket” refers to the TC Communications family of small, durable and reliable Fiber Optic Modems. Available with a wide variety of interfaces and features, Pocket Rockets combine to provide solutions for most applications encountered in a general purpose fiber optic network.



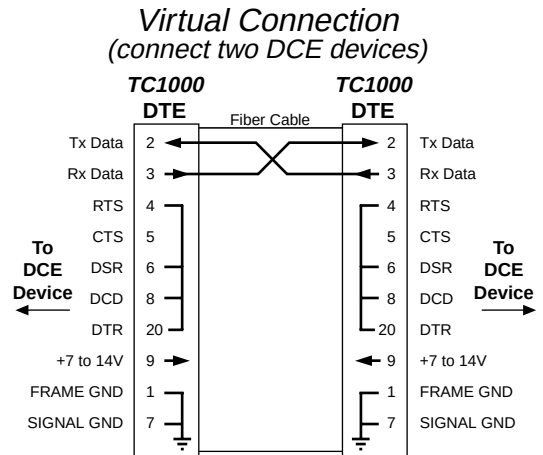
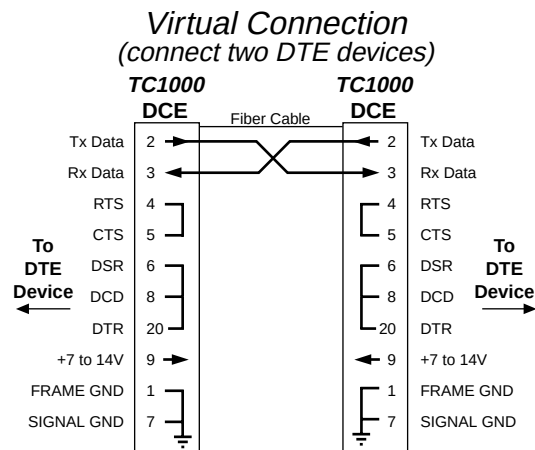
Applications

Typical applications include linking remote terminals or printers to host computers, tail circuits to existing multiplexers and extending data communications links. Fiber Optic Modems are also ideal for connecting data communications devices in harsh manufacturing or outdoor environments where EMI or RFI interference, ground loops and lightning are prevalent.

TC Communications, Inc.
17575 Cartwright Rd. Irvine, CA 92614 U.S.A.
Tel: (949) 852-1972, Fax: (949) 852-1948
Sales: (800) 569-4736
Web Site: www.tccomm.com
E-mail: info@tccomm.com



Typical RS-232 asynchronous application using TC1000s



Data Rates

Asyncup to 19.2 Kbps

Optical

Transmitter.....LED/ELED

Receiver.....PIN Diode

Wavelength.....850/1300nm MM

.....1300/1550nm SM

Fiber Optic Connectors

.....ST, Optional FC

Loss Budget* - 850/1300/1550nm

Multimode @62.5/125µm12dB

Single Mode @9/125µm12dB

Electrical

ConnectorDB25 Female

Interface

.....(DTE/DCE Switchable) RS-232

System

Bit Error Rate1 in 10⁹ or better

Visual Indicators

System Status LED....“Active” (Sync)

Power

Standard9VDC@15mA

Alt. Power (from signal source)

DB25 Pins4, 8, 9, or 20

Optional.....115/230VAC

(with external power cube)

Temperature

Operating.....-10°C to 50°C

Hi-Temp (optional)-20°C to 70°C

Storage.....-40°C to 90°C

Humidity95% non-condensing

Physical

Height(2.24 cm) 0.88"

Width(10.05 cm) 3.96"

Depth(4.40 cm) 1.73"

Weight(141.4 gm) 4.99 oz

*Contact factory for higher requirements



TC Communications, Inc.
17575 Cartwright Road
Irvine, CA 92606 U.S.A.
Factory Tel: (949) 852-1972
Fax: (949) 852-1948



Sales Office

U.S.A. Domestic: (800) 569-4736 International: (949) 852-1973

Web Site: www.tccomm.com
E-mail: info@tccomm.com