

# "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)
- Sturdy Compact Metal Case



**P**ocket Rocket modems are designed for local and campus networks up to distances of approximately 5 km multimode and 30 km single mode. Distances can vary depending on the size and type of fiber optic cable, number of connections and type of fiber optic connectivity device(s) used in a given network.

The TC1000 is low in price and high in reliability. It is plug compatible with RS-232 interfaces and will transmit asynchronous data at speeds up to 19.2 Kbps. It supports both single mode (1300/1550nm) and multimode (850/1300nm) formats. Fiber optic connectors are ST or FC. Electrical connectors are DB25 female. It is DCE/DTE switchable.

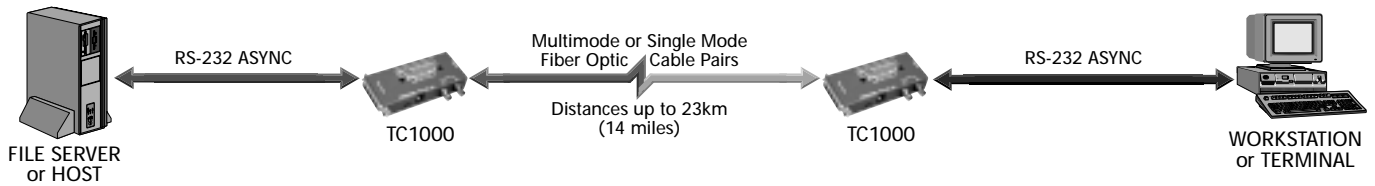
For most applications, the TC1000 derives power through any of the standard EIA control signals (pins 4, 8, 20) or positive voltage line (pin 9). An external power supply (115/230VAC) may be required when signal power is not adequate to drive the TC1000.



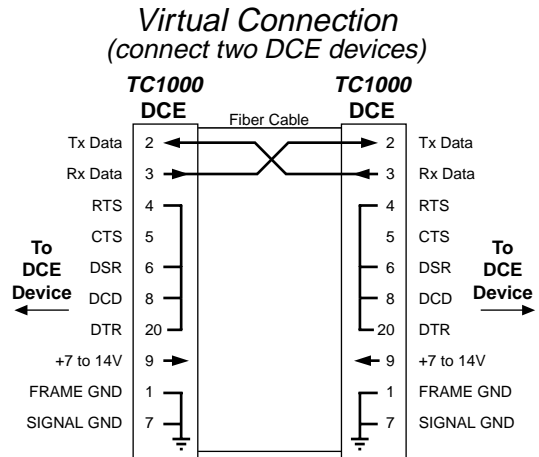
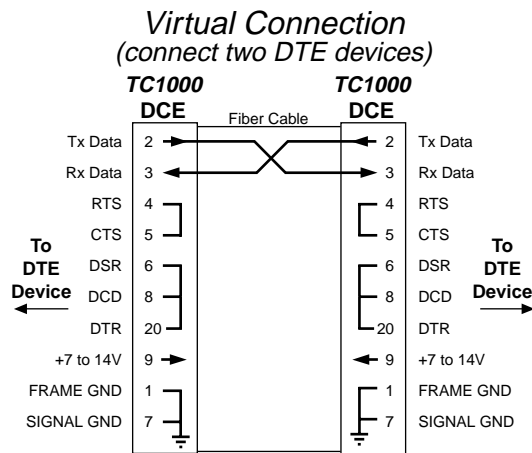
## Applications

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](http://www.tccomm.com)  
E-mail: [info@tccomm.com](mailto:info@tccomm.com)



Typical RS-232 asynchronous application using Model TC1000



**Data Rates**

Async .....up to 19.2 Kbps

**Optical**

Transmitter.....LED/ELED  
 Receiver.....PIN Diode  
 Wavelength.....850/1300nm MM  
 .....1300/1550nm SM  
 Fiber Optic Connectors .....ST  
 {trademark of AT&T}; Optional FC  
 Loss Budget\* - 850/1300/1550nm  
 12dB .....Multimode @62.5/125µm  
 12dB.....Single Mode @9/125µm

**Electrical**

Connector.....DB25 Female  
 Interface  
 .....(DTE/DCE Switchable) RS-232

**System**

Bit Error Rate.....1 in 10<sup>9</sup> or better

**Visual Indicators**

System Status LED...."Active" (Sync)

**Power**

Standard .....12VDC@15mA  
 Alt. Power (from signal source)  
 DB25 Pins.....4, 5, 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  
 Humidity .....95% non-condensing

**Physical**

Height.....(2.03 cm) 0.8"  
 Width.....(10.41 cm) 4.1"  
 Depth.....(4.39 cm) 1.7"  
 Weight.....(137 gm) 7 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](http://www.tccomm.com)  
 E-mail: [info@tccomm.com](mailto:info@tccomm.com)