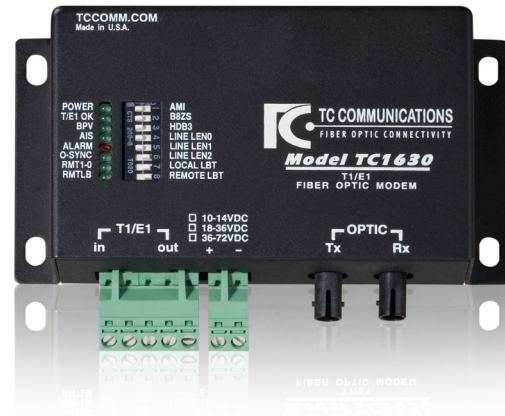


T1/E1 Fiber Optic Modem

Model TC1630 (Pocket Rocket)

- Distances up to 80km
- Hardened Temperature Version
- Local/Remote Loopback
- Eight LED Indicators
- No Jitter
- Multimode & Single Mode (850/1300/1550nm)
- Low Power Consumption (3 Watts)
- Full Digital Technology Design
- Supports AMI/B8ZS/HDB3 Line Codes
- 12 / 24 /-48VDC, or 115/230VAC Power



TC1630 Pocket Rocket

Aggressively priced and small in size, the TC1630 T1/E1 Fiber Optic Modem provides a reliable point-to-point link between two T1/E1 devices. Distances to 80km are possible. It is available both multimode (850/1300nm) and single mode (1300/1550nm). For single fiber (single mode) applications, a wave division multiplexer (WDM) can be used with the TC1630.

User benefits include no jitter, extremely low current consumption (less than 250mA), high reliability and small size (1.1" X 5.0" X 2.5"). Important features include Local and Remote Loopback, multiple power options and a replaceable Line Interface Module.

Diagnostics include eight LED indicators for installation and troubleshooting. Eight DIP switches, accessible from the top panel, provide control settings for line code, line length, local loopback and remote loopback. An intelligent line code setting switch is provided to eliminate confusion - such as when the line code does not match the line length setting.

Transparent to the framing format, the TC1630 supports AMI, B8ZS and HDB3 line codes and DSX-1 (T1) cross connect distances from 0 to 655 feet. It includes an internal elastic buffer to remove jitter from transmit data.

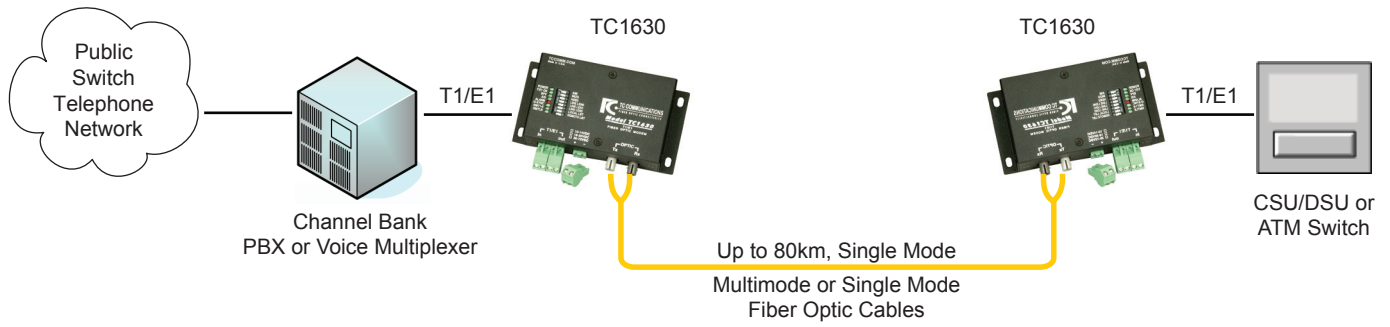
The TC1630 is available rackmount or standalone and is compatible with all popular types and sizes of optic cable. Fiber optic connectors are ST or FC. Special four-position and two-position feed-thru detachable terminals connect the T1/E1 twisted pairs. Input power is 12VDC, optional 24VDC, -48VDC or 115/230VAC with an external power cube. A hardened temperature version (-20°C to 70°C), Model TC1630Q, is also available.



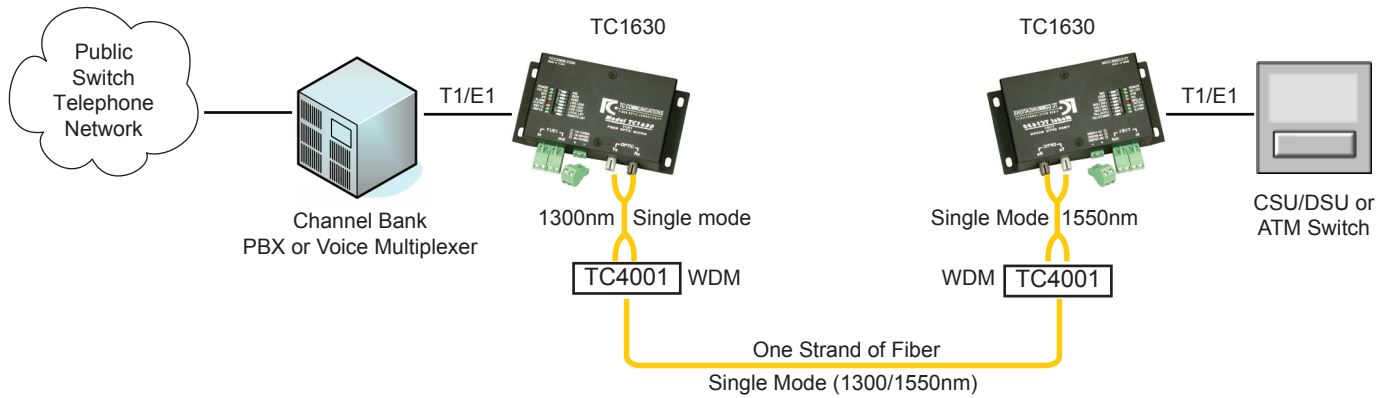
Applications

The TC1630 Fiber Optic T1/E1 Modem is typically used to link Channel Banks, PBX's, and M13 Multiplexers to DSX-1 Cross Connects in Video Conferencing and Distance Learning applications. It is also used to link Customer Premises Equipment to CSU/DSUs and with metallic medium T1/E1 multiplexers to transmit over fiber optic cable.

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E-mail: sales@tccomm.com



Typical Point-to-Point Application Using TC1630s In A Local Loop



Typical Point-to-Point Application Using TC1630s And TC4001

Data Rates

T11.544 Mbps
 E12.048 Mbps

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 @62.5/125µm15dB
 Single Mode @9/125µm.....20dB

Electrical

Interface.....T1 or E1 (G.703)
 T1 Connector (100 ohm)
Detachable Terminal Block
 E1 Connector (120 ohm)
Detachable Terminal Block
 E1 Connector (75 ohm)
Detachable Terminal Block &
BNC Cable

Visual Indicators

System StatusPower, Alarm
 T1/E1 Status O-SYNC, BPV, AIS,
 T1/E1 OK, RMT1-0, RMTLB

System

Bit Error Rate1 in 10¹⁰ or better

Diagnostic Functions

.....Local & Remote Loopback

Power

Standard12VDC @ 250mA
 Optional24VDC, -48VDC or
 115/230VAC (with 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(2.86 cm) 1.13"
 Width(12.70 cm) 5.00"
 Depth(6.60 cm) 2.60"
 Weight.....(148 gm) 5.22 oz

*Contact factory for higher requirements



ISO 9001
 QMI-SAI Global
 #1045959

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