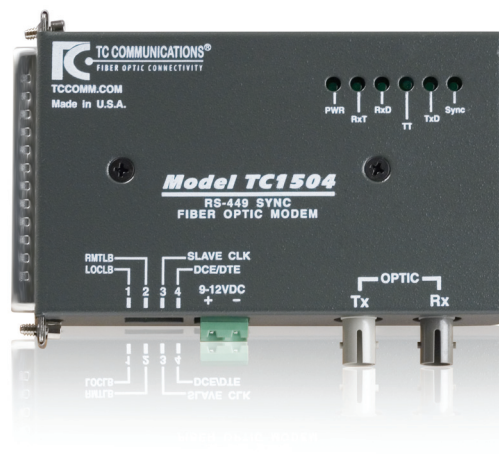


RS-422/RS-449 Sync Fiber Optic Modem

Model TC1504

- Sync Data Rates up to 2.048 Mbps
- Distances up to 80km
- Multimode or Single Mode (850/1300/1550nm)
- DTE/DCE Selectable
- Six Diagnostic LEDs
- Slave Clock
- Local & Remote Loopback Functions
- Hardened Temperature Version (optional)



TC1504 RS-422/RS449 Sync Fiber Optic Modem

Compact and reliable, the TC1504 Fiber Optic Modem links synchronous data communication equipment requiring RS-422/RS-449 interfaces. It supports synchronous data rates up to 2.048 Mbps with an external clock.

Transparent to the data, the TC1504 combines external clocking and data into an optical composite signal for transmission between local and remote units. It is DCE/DTE switchable.

Diagnostics include local and remote loopback and visual indicators for Power, Receive Timing, Receive Data, Transmit Timing, Transmit Data, and Optic Sync. DIP switches are provided for the Local & Remote Loopback functions, Slave Clock, and DCE/DTE configuration.

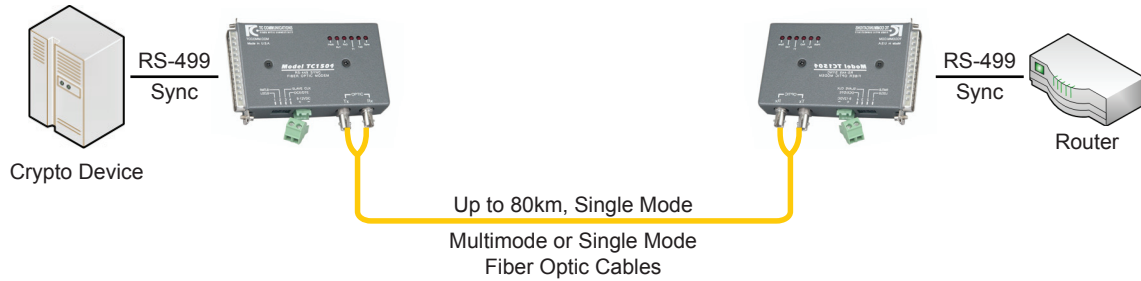
The TC1504 will work with all popular types and sizes of multimode (850nm/1300nm) or single mode (1300/1550nm) fiber optic cable. Fiber optic connectors are ST or FC. The electrical connector is a male DB37. Power is 12VDC or 115/230VAC with an external power cube. A hardened temperature version (-20°C to 70°C), Model TC1504T, is also available.



Applications

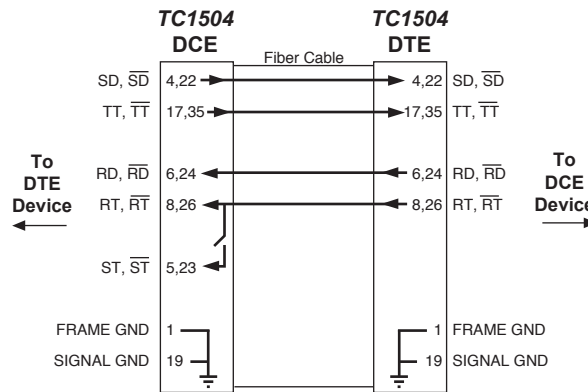
The TC1504 is typically used to link high speed synchronous data devices. It is frequently used in harsh environments because of its fiber optic benefits. This makes it an efficient, low cost solution to electrical/radio frequency interference, ground loops and lightning problems.

TC Communications, Inc.
17881 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: sales@tccomm.com



Typical RS-422/449 Synchronous Application Using TC1504s

Virtual Connection
(connect DCE to DTE devices)



Data Rates

Sync DC (0Hz).....up to 2.048 Mbps*

Optical

Transmitter.....LED/ELED
 Receiver.....PIN Diode
 Wavelength.....850/1300nm MM
1300/1550nm SM
 Fiber Optic ConnectorsST
Optional FC
 Loss Budget* - 850/1300/1550nm
 15dB.....Multimode @62.5/125 m
 20dBSingle Mode @9/125 m

Electrical

Connector.....DB37 Male
 Interface
 (DCE/DTE Switchable) RS-422/449

System

Bit Error Rate1 in 10⁹ or better

Visual Indicators

LEDs...PWR, RxT, RxD, TT, TxD, Sync

Power

Standard12VDC @200mA
 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(2.0 cm) 0.72"
 Width(10.4 cm) 3.89"
 Depth(7.5 cm) 2.36"
 Weight.....(170 gm) 5.46 oz

*Contact factory for higher requirements



ISO 9001
 QMI-SAI Global
 #1045959

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