“Pocket Rocket” RS-232 Async w/ Handshake Fiber Modem

Model TC1200

- Async Data Rates up to 120 Kbps
- 3 Independent Channels (or 1-chan w/ handshake)
- 5 Control Signals (RTS, CTS, DTR, DSR & CD)
- Multimode or Single Mode (850/1300/1550nm)
- Six Diagnostic LEDs
- Local & Remote Loopback
- Hardened Temperature Version (optional)
- Distances up to 80 Km

TC1200 RS-232 Async w/ Handshake Fiber Optic Modem

The TC1200 is a 3-channel asynchronous RS-232 fiber optic modem that provides up to five bi-directional control (or handshake) signals (RTS, CTS, DTR, DSR and CD). It offers the versatility of linking three data communications devices over a single duplex fiber or one device with a bi-directional control.

The TC1200 supports data rates up to 120 Kbps. A hardened temperature version (-20°C to 70°C) is optional. Six Diagnostic indicators indicate power, electrical signal status and optic sync. It is a DCE device only and performs Local & Remote loopbacks (for diagnostics) with the flip of a switch.

The TC1200 is compatible with all popular types and sizes of multimode (850/1300nm) or single mode (1300/1550nm) fiber optic cable. Fiber optic connector are ST or FC. Electrical connector is DB25 Female. Standard power is 12 VDC or 115/230 VAC with an external power cube.

Because the TC1200 can also function as a 3-channel multiplexer by using the control signal channels as data channels, it is particularly cost effective.

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.

TC COMMUNICATIONS
FIBER OPTIC CONNECTIVITY

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.

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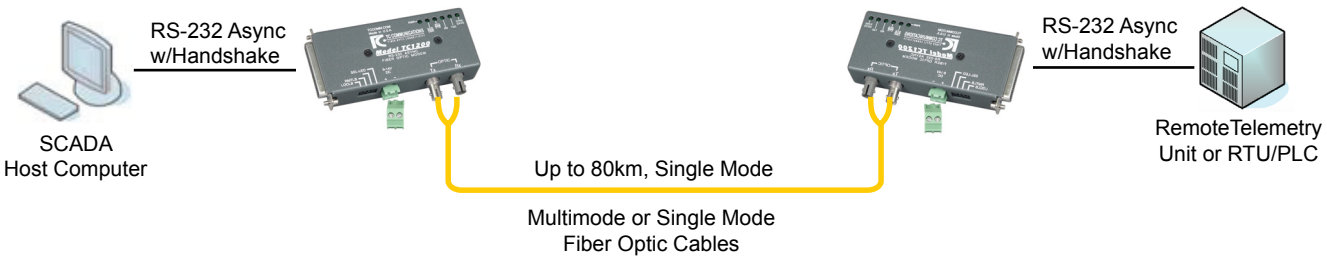
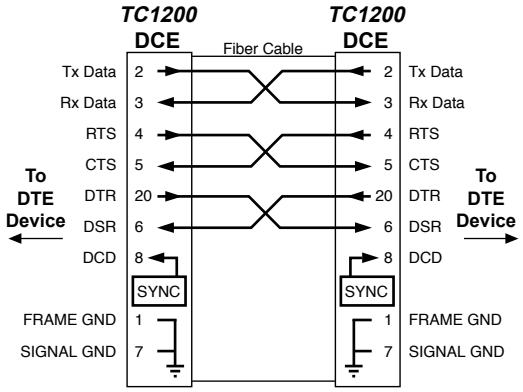


Typical Point-to-Point Application Using TC1200 RS-232 Async w/ Handshake Fiber Optic Modems

Virtual Connection
(connect two DTE devices)



Data Rates
Async .....up to 120 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 @62.5/125µm.....15dB
Single Mode @9/125µm.....20dB

Electrical
Connector .....DB25 Female
Interface .....(DCE Only) RS-232

System
Bit Error Rate .....1 in 10^9 or better

Visual Indicators
LEDs .....PWR, DTR, DSR, RTS, CTS,
.....RD, TxD, DCD (SYNC)

Power
Standard .....12VDC @250mA
Optional.....115/230VAC
(with external power cube)

Temperature
Operating.....-10°C to 50°C
Hi-Temp (option) .....-20°C to 70°C
Storage.....-40°C to 90°Cz
Humidity .....95% non-condensing

Physical (Wallmount Base)
Height .....(2.24 cm) 0.88"
Width .....(10.06 cm) 3.96"
Depth .....(7.77 cm) 3.06"
Weight .....(104.0 gm) 3.67 oz

**Contact factory for higher requirements*

TC COMMUNICATIONS®
FIBER OPTIC CONNECTIVITY

Certified System™
ISO 9001
QMI-SAI Global
#1045959

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Note - Information contained in this data sheet is subject to change without prior notice. 010C