“Pocket Rocket” RS-232 Async or Sync w/Clock Fiber Optic Modem

Model TC1100

- Data Rates up to 115 Kbps
- Selectable Internal Clock or Slave Clock
- DCE Only
- Hardened Temperature Version (-20°C to 70°C) (optional)
- Multimode or Single Mode (850/1300/1550nm)
- Five Troubleshooting LEDs
- Sturdy Compact Metal Case

(Wallmount Base Unit shown)

Because of its versatility, the “Pocket Rocket” TC1100 Fiber Optic Modem is ideal for connecting a variety of RS-232 synchronous (internal or external clock) or asynchronous communications devices to a host computer. Distances up to 80km are possible.

The TC1100 is “DCE” only and supports external synchronous data transmission up to128 Kbps and all popular internal clock rates (switch-selectable) including 2.4K, 4.8K, 9.6K, 38.4K, 64K, 128K. It supports asynchronous data rates up to 64 Kbps.

Diagnostics include five LEDs: DC, RxD, TxCLK, TxD and SYNC. A hardened temperature version (-20°C to 70°C) is available for harsh environments.

Available for both 1300/1550nm single mode or 850/1300nm multimode, the TC1100 is compatible with all popular sizes and types of fiber optic cable. Fiber optic connectors are ST, FC is optional. Electrical connectors are DB25 female. Standard power is 12VDC or 115/230VAC with an external power adapter.

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.

Pocket Rocket modems are designed for local and campus networks up to distances of approximately 5 km multimode and 80 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.

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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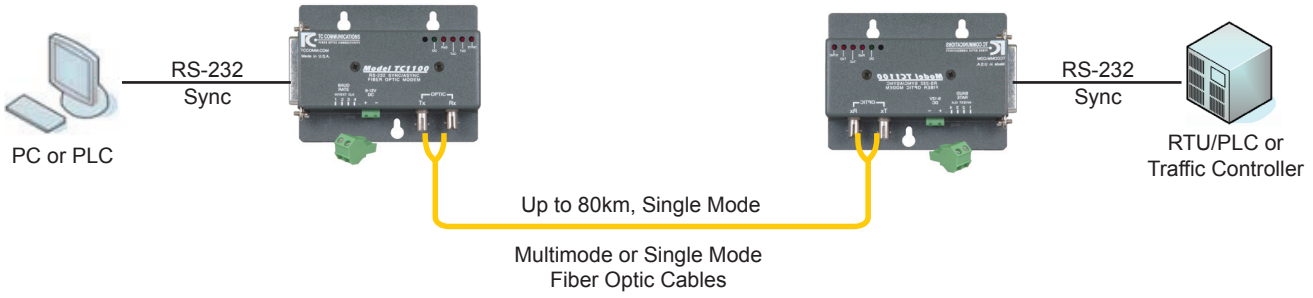
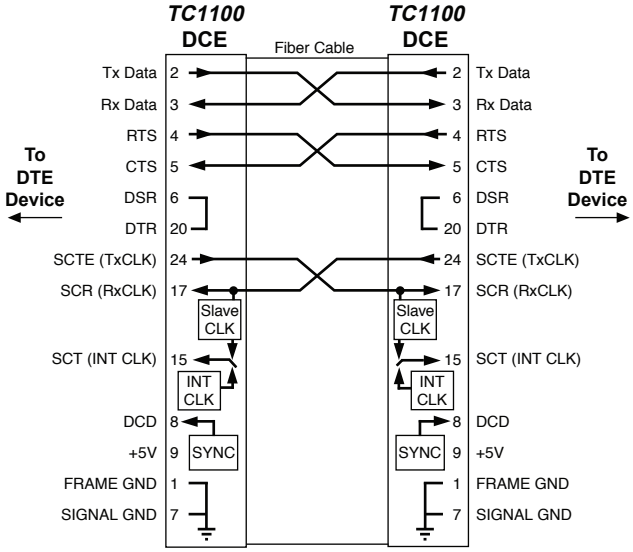


Typical Point-to-Point Application Using TC1100 Sync/Async Fiber Optic Modems

RS-232 Virtual Connection
(connect two Sync/Async DTE devices)



Data Rates
Async .....up to 115 Kbps
Sync.....up to 128 Kbps

Internal Clock
User-Selectable 2.4K, 4.8K, 9.6K,
.....19.2K, 38.4K, 64K, 128K

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 ...DC, RxD, TxCLK, TxD, SYNC

Power
Standard .....12VDC @250mA
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 (Wallmount Base)
Height .....(2.24 cm) 0.88"
Width .....(10.05 cm) 3.96"
Depth .....(7.77 cm) 3.06"
Weight .....(104.0 gm) 3.67 oz
**Contact factory for higher requirements*

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

TC COMMUNICATIONS
FIBER OPTIC CONNECTIVITY

Certified System™
ISO 9001
QMI-SAI Global
#1045959

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