Multi-Drop (String) Fiber Optic Modem

- Bus or String Topologies
- Fault Tolerant "Double" Master (optional)
- Async Data Rates up to 38.4 Kbps
- RS-232, RS-422 or RS-485
- Multimode & Single Mode (850/1300/1550)
- Hardened Temperature Version (optional)
- Test Signal generator
- Anti-Streaming (Anti-Jabber)
- Local Dry Contact Alarm Relay



Bus Intermediate Unit, Dual Pair Optics

A vailable for either Bus or String topologies, the TC2200 Multi-Drop Fiber Optic Modem links monitoring devices (RTUs or PLCs) to a Host controller or CPU.

Electrical interfaces can be RS-232, RS-422 or RS-485. The RS-485 electrical port can be multi-dropped. Asynchronous data rates can be up to 38.4 Kbps. A hardened temperature version (-40° C to 70° C), Model TC2200T, is also available.

Each unit comes standard with two RS-232 channels or one channel RS-422/RS-485. The second RS-232 channel can be used for data or RTS/CTS control. The second RS-232 channel can also be used as a dial-up telephone extension with the "Quick-Talk" Telephone Extender.

Diagnostics include Local and Remote Loopback, a Test Signal Generator for verifying link integrity and a dry contact alarm relay. Sixteen LEDs provide visual indicators for System, Optical and Electrical system status. "Anti-Streaming" capability is standard. (Anti-Streaming prevents a single node failure (e.g. "babbling") from bringing down the entire network).

For applications requiring maximum reliability, the TC2200 is also available in a "Dual Master"fault tolerant version. In the event of cable breakage or a defective Remote unit, the backup Master will start polling the Remote units from the opposite direction. The primary and secondary Master units can be located anywhere on the fiber bus network. Remote units can be daisychained.

The TC2200 is compatible with all popular types and sizes of fiber optic cable and is available multimode (850/1300nm) or single mode (1300/1550nm). Fiber optic connectors are ST or FC. Electrical connectors are DB25 female. Power is 12VDC; optional 24VDC, -48VDC, or 115/230VAC with an external power cube.

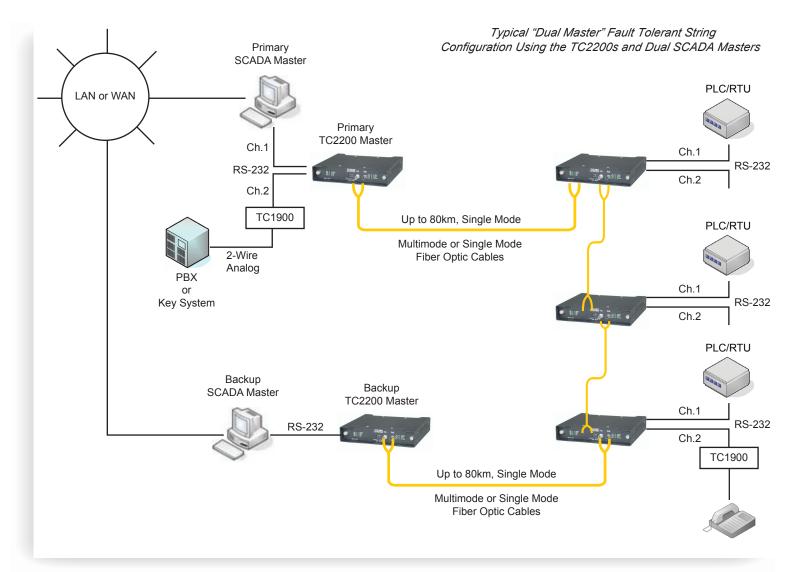


Applications

Renowned for its high reliability, the TC2200 Multi-Drop Modem is ideal for Bus or String communication links in SCADA, Traffic Control, Industrial Process Control and security networks. It is frequently used to interconnect Remote Terminal Units (RTUs) or Programmable Logic Controllers (PLCs) in Utility substation SCADA Networks.

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Model TC2200



Data Rates

Async RS-232, RS-422, RS-485
up to 38.4 Kbps
Optical
TransmitterLED/ELED*
ReceiverPIN 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 @9/125µm20dB
Floctrical

Electrical

ConnectorDB25 Female Interface......(DCE or DTE) RS-232,RS-422, or RS-485 (2 or 4-wire)

System

Bit Error Rate1 in 10[°] or better

Diagnostic Functions

.....Local & Remote Loopback,Signal Generator, Disable Alarm

Visual Indicators

System......MASTER, SLAVE, PWRA,PWRB, Vcc, ALARM Electrical......BRD-1, BRD-2, RSP-1,RSP-2, DCE, DTE OpticalRx-A, Rx-B, Sync-A, Sync-B

Alarm

Dry Contact.....Normal OPEN

Power

Standard	12VDC @400mA
Optional	.24VDC, -48VDC, or
115/230VA	AC (with power cube)

Temperature

Operating10°C to 50°C
Hi-Temp (optional)40°C to 70°C
Storage40°C to 90°C
Humidity95% non-condensing

Physical

Height	(3.53 cm) 1.39"	
Width	(18.14 cm) 7.14"	
Depth	(16.59 cm) 6.53"	
Weight	(544 gm) 1.2 lbs	
*Contact factory for higher requirements		

FIBER OPTIC CONNECTIVITY



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