

8-Channel RS-232 Fiber Optic Micro-Mux

Model
TC1880

- Multiplexes Async/Sync Simultaneously
- Data Rates up to 56 Kbps
- Multimode & Single Mode (850/1300/1550nm)
- Small Size ($3/4'' \times 4 1/4'' \times 1 3/4''$)
- Up to 8 Async Channels
- Up to 4 Sync Channels (Ext. Clock)
- Jitter Rate Less Than 8%
- Extend Up to 8 Telephones with TC1900 Quick-Talk Telephone Extender.



Packaged in a remarkably small pocket-sized unit, the TC1880 RS-232 Fiber Optic Micro-Multiplexer offers the lowest per-channel cost of any comparable fiber optic multiplexer currently available in today's marketplace.

Using a fan-out cable adapter, the TC1880 can be configured for up to 8 asynchronous channels, or 4 synchronous channels, or combinations of both.

Configurations can be easily changed in the field by replacing the fan-out adapter. For example, a user could multiplex four channels of asynchronous data and two channels of synchronous data simultaneously over one duplex fiber optic cable.

The TC1880 can also be used to extend up to eight telephones to remote locations with the Model TC1900 "Quick-Talk" Telephone Extender.

The TC1880 is compatible with all popular sizes and types of fiber optic cable. It supports data rates up to 56 Kbps and is available single mode (1300/1550nm) or multimode (850/1300nm).

Fiber optic connectors are ST or FC. Electrical connectors are DB25 female. Power is 12VDC or 115/230VAC with an external power cube. An extreme temperature version (-20° to 70°C), Model TC1880T, is also available.

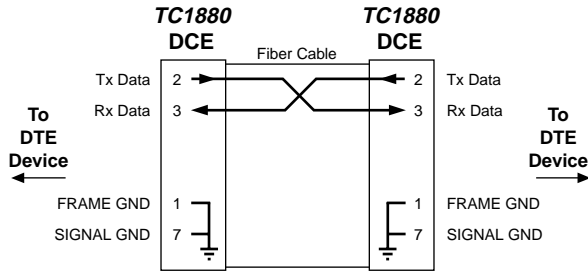


Applications

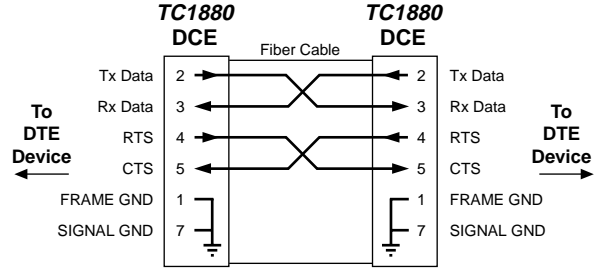
The TC1880 Micro Multiplexer is a simple and cost effective method for connecting large numbers of async or synchronous terminals, printers and status collecting devices. It is typically used in harsh environments where ground loops, EMI/RFI interference and lightning conditions may affect transmission signal quality.

TC Communications, Inc.
17575 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: info@tccomm.com

Virtual Connection
(connect two Async DTE devices)



Virtual Connection
(connect two Async w/Control DTE devices)

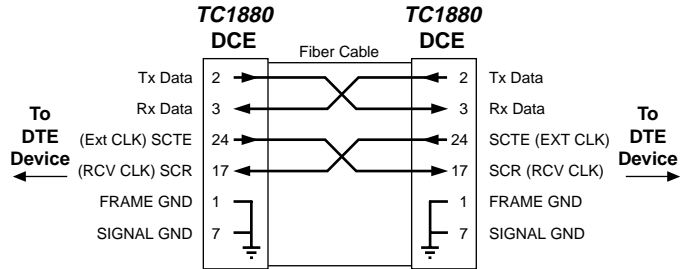


Configurations

The TC1880 can be configured as an 8 Channel Async Multiplexer, a 4 Channel Sync Multiplexer, or various combinations of both.

Model Number	Async Channels	Sync (Ext. Clock) Channels
TC1881	8	0
TC1882	4	2
TC1883	2	3
TC1884	0	4
TC1885	4 (w/ 1 Ctrl)	0
TC1886	2 (w/ 1 Ctrl)	2

Virtual Connection
(connect two Sync w/Ext. Clock DTE devices)



Data Rates (per channel)

Async or Sync with External Clock

.....up to 56 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.....15dB

Electrical

Connector.....DB25 Female

Interface.....(DCE) RS-232

System

Bit Error Rate.....1 in 10⁹ or better

Visual Indicator

LED.....ACTIVE (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 (Standalone Unit)

Height.....(2.24 cm) 0.88"

Width.....(10.16 cm) 4.0"

Depth.....(4.39 cm) 1.7"

Weight.....(83.6 gm) 2.95 oz

*Contact factory for higher requirements



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Sales Office

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International: (949) 852-1973

Web Site: www.tccomm.com
E-mail: info@tccomm.com