TC1880 Series

4/5/6/8 Channel RS-232 FIBER OPTIC MICRO MUX **User's Manual**

MODEL:_	
S/N:	
- ,	
DATE:	

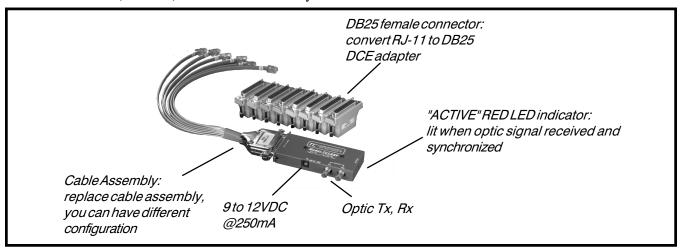
Notice!

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1. Description

The TC1880 series is a compact sized TDM (time division multiplexer) with RS-232 interface. It consists of a base unit (TC1880) and a cable assembly.



By replacing the cable assembly you can have the following 6 configurations for your applications:

Model	Async Channels	Sync (ext. clock) Channels
TC1881	8	0
TC1882	4	2
TC1883	2	3
TC1884	0	4
TC1885	4 (w/1 control)	0
TC1886	2 (w/1 control)	2

The base unit is an 8 channel RS-232 multiplexer. Each channel's data rate can be DC to 38.4Kbps. Power is 9 to 12 VDC or 115/230 VAC with an external power cube.

2. Electrical (TC1880)

Interface: RS-232

Data Rate: Asynchronous DC to 38.4Kbps

Data Flow Control: XÓN/XOFF only Connector: DB25 female Pinouts: Refer to next page

3. Optical

-19dBm* (850nm MM, 1300nm MM, @62.5/125 μ m) -19dBm* (1300nm SM, @9/125 μ m) -36dBm* (850nm MM/1300nm MM, 62.5/125 μ m) -34dBm* (1300nm SM 9/125 μ m) Transmitter: LED, typical launch power

Receiver: PIN, typical sensitivity

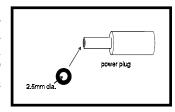
Distance: 850nm Multimode up to 4km* distance $(62.5/125\mu\text{m})$

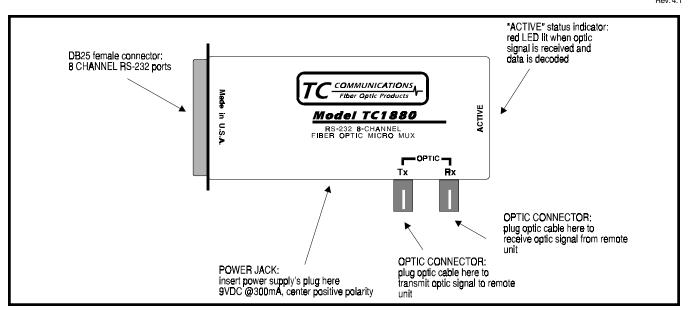
up to 20km* distance (9/125µm) 1300nm Single Mode

*Launch power, sensitivity & distance are listed for reference only. These numbers may vary.

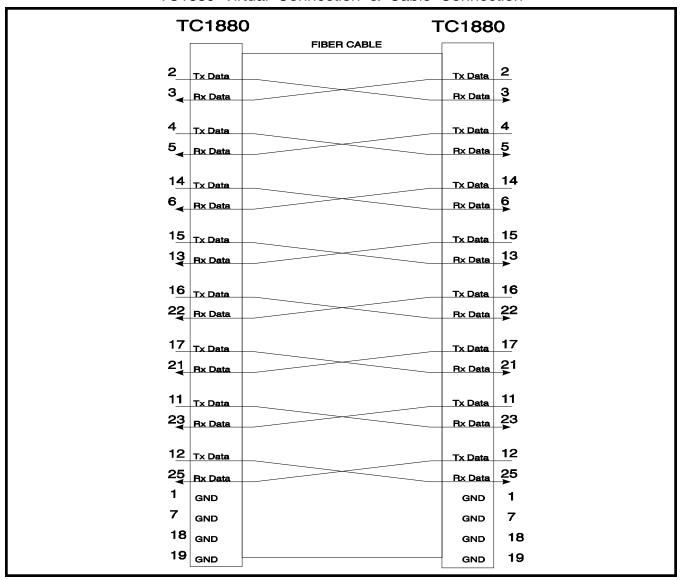
4. Power Requirements

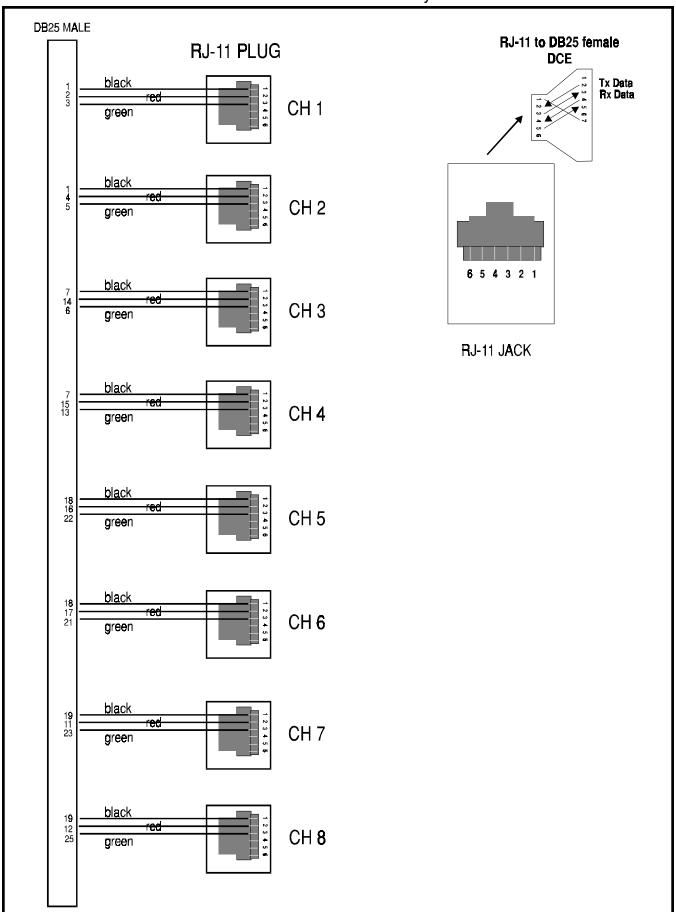
The TC1880 is designed to draw power from the power jack only and consumes very low power. The input DC voltage is from 9V to 12V and current is 200mA to 250mA for the Multimode 850nm or 1310nm version. Should the external power adapter need to be replaced, use one with the following specifications: 9 to12VDC @300mA or above, with positive polarity at the center (2.5mm diameter). You may order it from TC Communications.



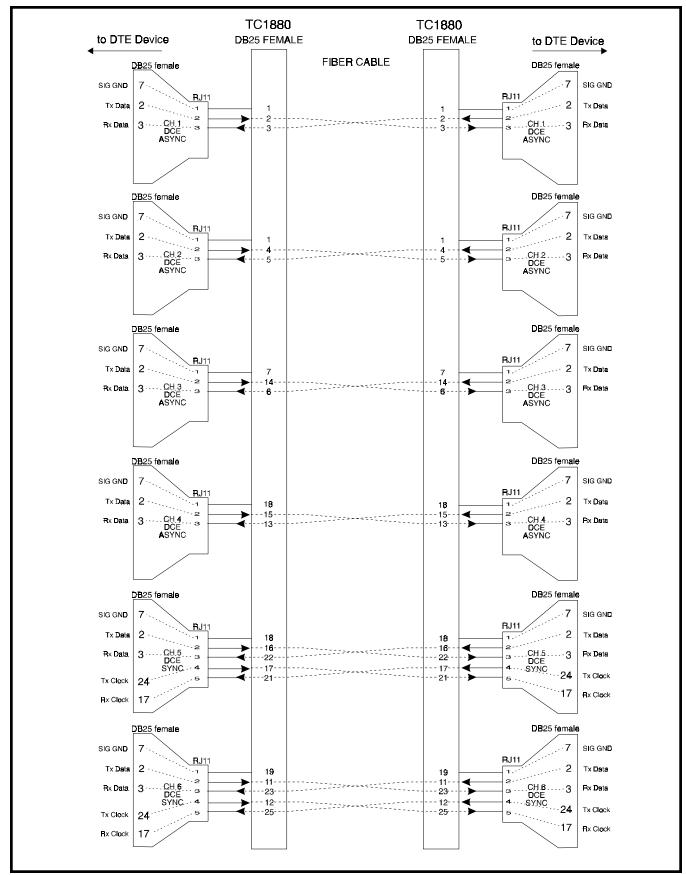


TC1880 Virtual Connection & Cable Connection

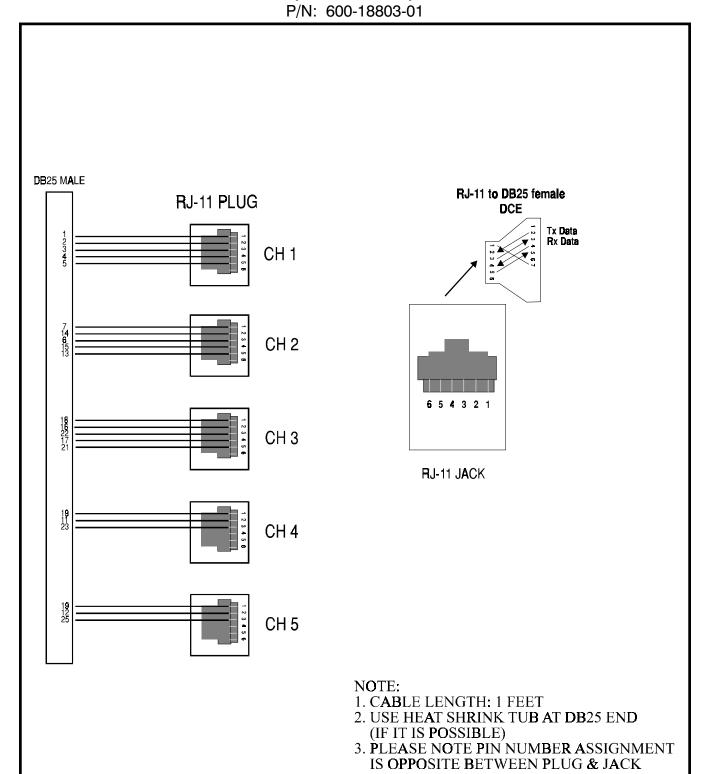




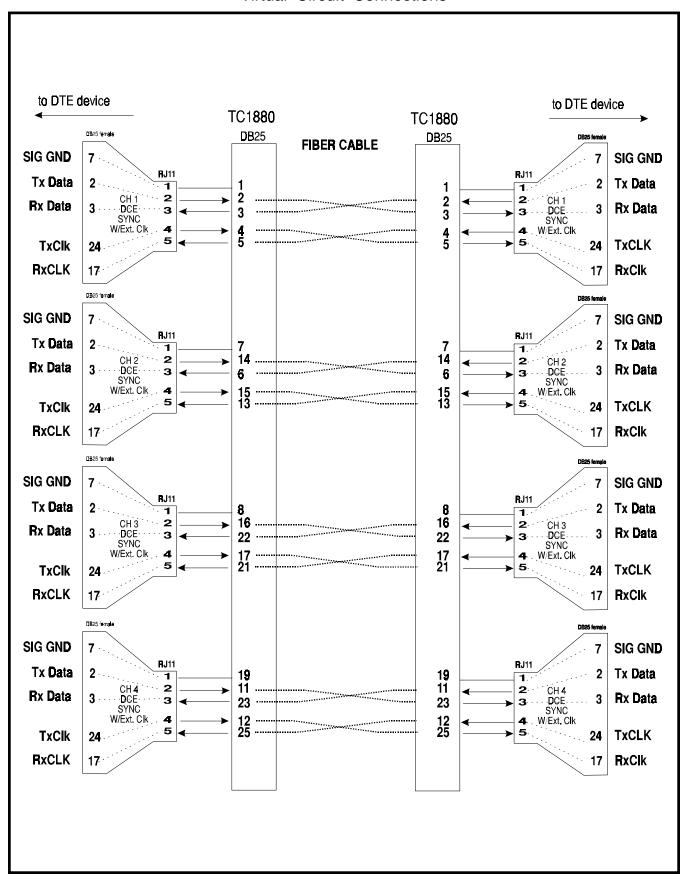
TC1882
4 CH Async & 2 CH Sync Mux
DTE Device to DTE Device
Virtual Circuit Connections



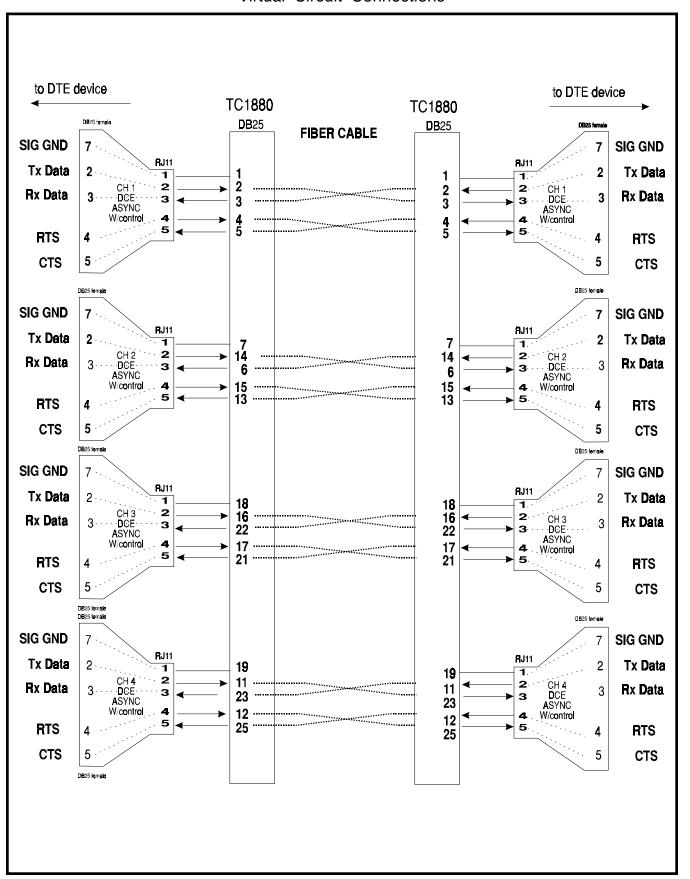
TC1883 Cable Assembly 4 CH Sync & 2 CH Async Mux



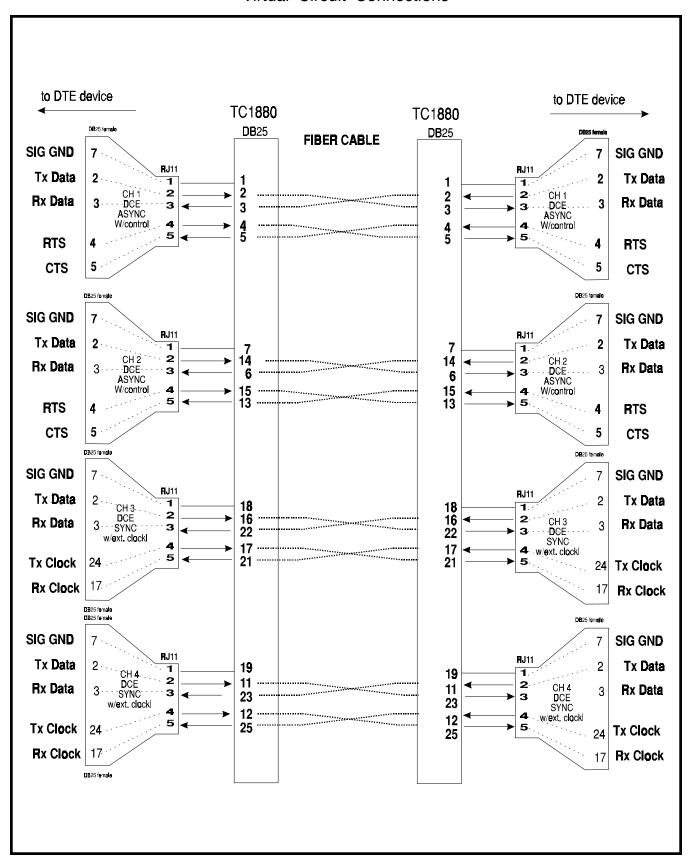
TC1884
4 CH Sync Mux with External Clock
DTE Device to DTE Device
Virtual Circuit Connections



TC1885
4 CH Async Mux with Control
DTE Device to DTE Device
Virtual Circuit Connections



TC1886
2 CH Async Mux with Control and
2 CH Sync Mux with External Clock
DTE Device to DTE Device
Virtual Circuit Connections



5. Warranty & Return Policy

All products manufactured by TC Communications, Inc. come with a two-year warranty. TC Communications, Inc. warrants to the Buyer that all goods sold will perform in accordance with the applicable data sheets, drawings or written specifications. It also warrants that, at the time of sale, the goods will be free from defects in material or workmanship. This warranty shall apply for a period of two years from the date of shipment, unless goods have been subject to misuse, neglect, accident, damage, improper installation or maintenance, or alteration or repair by anyone other than Seller or its authorized representative.

Buyer should notify TC Communications, Inc. promptly in writing of any claim based upon warranty, and TC Communications, Inc., at its option, may first inspect such goods at the premises of the Buyer, or may give written authorization to Buyer to return the goods to TC Communications, Inc., transportation charges prepaid, for examination by TC Communications, Inc. Buyer shall bear the risk of loss until all goods authorized to be returned are delivered to TC Communications, Inc. TC Communications, Inc. shall not be liable for any inspection, packing or labor costs in connection with the return of goods.

In the event that TC Communications, Inc. breaches its obligation of warranty, the sole and exclusive remedy of the Buyer is limited to replacement, repair or credit of the purchase price, at TC Communications, Inc.'s option.

To return a product, you must first obtain a Return Material Authorization number from the Customer Service Department. If the product's warranty has expired, you will need to provide a purchase order to authorize the repair. When returning a product for a suspected failure, please provide a description of the problem and any results of diagnostic tests that have been conducted. The shipping expense to TC Communications should be prepaid. The product should be properly packaged and insured. After product is repaired, TC Communications will ship the product back to the Buyer at Seller's expense for domestic destinations.