- ESF Framing Support for T1
- PCM31C Framing Support for E1
- Built-in Power Redundancy
- 1U Rack Mount
- Diagnostic DIP Switches for T1/E1 Loopback Tests
- 12VDC, 24VDC, -48VDC, 125VDC
- LEDs for T1/E1 signal status



TC8630-1 in 1U Chassis (Left Front)



TC8630-1 in 1U Chassis (Rear)



The TC8630-1 is a T1/E1 Redundancy Card that allows network managers the flexibility of leveraging their existing T1/E1 circuits by adding backup T1/E1 link as needed. It is economical, simple to install and comes standard with built-in power redundancy.

Diagnostics are extensive and also provides multiple LEDs for Alarm, Power, Vcc, and T1/E1 status.

The built-in Sync mechanism verifies both device and T1/E1 link operation. No other test equipment is required for link and device verification.

The TC8630-1 is compatible with standard  $100\Omega$  T1 for copper line lengths up to 3000ft and up to 2.5km for  $75\Omega$  /  $120\Omega$  E1 (copper line length is the distance between the TC8630-1 and the T1/E1 cross-connect). The T1/E1 uses a RJ-48F connector and the analog and dry contact channels use RJ-11 connectors. Optional BNC adapter cable is available for 75 Ohm E1. Power is 12VDC standard or optional 24VDC, -48VDC, 125VDC, or 115/230VAC with an external power cube. Optionally, a high temperature version (-20°C to 70°C) and extreme temperature version (-40°C to 80°C) are also available.

TC8630-1 is a modular card. It can be plugged into the following chassis:

 1U: TC8630-1 can add T1/E1 redundancy support for other interface card. TC Communications, Inc.
17881 Cartwright Rd. Irvine, CA 92614 U.S.A.
Tel: (949) 852-1972, Fax: (949) 852-1948

Web Site: tccomm.com

## T1/E1

• •	
Connector	RJ-48F
Receiver sensitivity	0dB to -36 dB
Line Code	
Framing	ESF (Only)
E1	
Connector	
Receiver sensitivity	0dB to -43 dB
Line Code	
Framing	PCM31C
Electrical	
Dry Contact Interface	
Dry Contact Interface Normal open	standard
Dry Contact Interface Normal open Normal close	optional
Dry Contact Interface Normal open Normal close Load Voltage (peak AC)	optional 60V
Dry Contact Interface Normal open Normal close Load Voltage (peak AC) Load Voltage (DC)	optional 60V 60V
Dry Contact Interface Normal open Normal close Load Voltage (peak AC) Load Voltage (DC) Continuous load current	optional 60V 60V 0.55A
Dry Contact Interface Normal open Normal close Load Voltage (peak AC) Load Voltage (DC)	optional60V60V65A1.2A

Output Capacitance ...... 150pF

Visual Indicators	A/D A D\A/D D \/ ALBA DBAT
SystemP\ T1/E1AMI, RAI, AIS,	
System	
Bit Error Rate	1 in 10° or better
Alarm	
Dry Contact	NormalOpen/Closed
Power	
Standard	12VDC @500mA MAX
Optional24VDC, –48\	/DC, 125VDC, or 100-240VAC
Temperature	
Operating	10°C to 50°C
Hi-Temp (optional)	–20°C to 70°C
Extreme (optional)	40°C to 80°C
Storage	
Humidity	95% non-condensing
Physical (1U Rackmount)	
Height	(4.3cm) 1.7"
Width	
Depth	(26.7cm) 10.5"





TC Communications, Inc. 17881 Cartwright Road Irvine, CA 92614 U.S.A. Factory Tel: (949) 852-1972 Fax: (949) 852-1948

Sales Office U.S.A. Domestic & International (949) 852-1973

Web Site: tccomm.com