

8 Channel T1/E1 Base Card for JumboBank 5U Chassis

TC8640-1

- 8 CH T1 or E1
- Modular Design with 8 Channels Per Module
- ESF Framing Support for T1
- PCM31C Framing Support for E1
- Very Low Latency
- Optional Power Redundancy
- 5U Rack Mount Chassis
- LEDs for T1/E1 signal status and remote unit status such as: BPV, CRC, RAI, AIS, LOS, SYNC
- Rotary Switch Used to Configure Each Individual T1/E1 Channel



TC8640-1 in bottom slot JumboBank 5U Chassis (TCRM19E)



The TC8640-1 is part of the Mini Channel Bank Series of products from TC Communications. TC8640-1 is a T1/E1 Base Card for the JumboBank 5U Chassis (TCRM19E) and works with all TC864x interface cards.

TC8640-1 has 8 Channels of T1 or E1. It is configured with the rotary switch to associate each T1/E1 link with a single or multiple interface cards in the 5U chassis. A second TC8640-1 in the 5U chassis can be configured either as an individual T1/E1 base card or as a redundant base card.

Extensive diagnostics LEDs such as BPV, CRC, RAI, AIS, LOS, SYNC are available to quickly identify issues.

The TC8640-1 base card is equipped with the "R2" function. The "R2" function, was developed to isolate causes of disruptions, leveraging the Alarm LEDs and allows users to clear the history on the local unit and mirror and reset the Alarm LEDs on the remote unit. Each of the Alarm LEDs have the ability to show current T1/E1 errors and a history of up to 3 errors.

The TC8640-1 is compatible with standard 100Ω T1 and 75Ω / 120Ω E1. The T1/E1 uses RJ48 connectors. Optional BNC adapter cable is available for 75 Ohm E1. Power is 12VDC standard. Optionally, a high temperature version (-20°C to 70°C) and extreme temperature version (-40°C to 80°C) are also available.

Applications

The TC8640-1 aggregates up to 8 incoming T1 lines from remote sites and terminates them on the JumboBank 5U chassis.

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T1/E1

T1

Receiver sensitivity0dB to -36 dB
Line Code AMI / B8ZS
Framing..... ESF (Only)

E1

Receiver sensitivity0dB to -43 dB
Line Code AMI / HDB3
Framing..... PCM31C

Visual Indicators

Channel Status..... TX, RX
System PWR A, PWR B, Vcc, ALM, RMT
T1/E1..... AMI, RAI, AIS, CRC, BPV, LOS, SYNC, In-Use

System

Bit Error Rate 1 in 10⁹ or better

Alarm

Dry Contact.....NormalOpen/Closed

Power

Standard 12VDC @500mA MAX

Temperature

Operating -10°C to 50°C
Hi-Temp (optional) -20°C to 70°C
Extreme (optional) -40°C to 80°C
Storage..... -40°C to 90°C
Humidity95% non-condensing

Physical (5U Rackmount Base Card)

Height (4.44cm) 1.75"
Width (21.54cm) 8.48"
Depth (22.86cm) 9.00"



SAI GLOBAL
ISO 9001
Quality

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