T1/E1 Redundancy Controller

TC8611

- **1+1 Redundancy over Primary and Secondary T1/E1 lines**
- **Extreme Temp (-40°C to +80°C) Optional**
- **Built-in Power Redundancy**
- **Meets or Exceeds IEC 61850-3, IEEE1613 & NEMA TS-2 Standards**
- **Member of the Mini Channel Bank Product Family**

TC8611 T1/E1 Redundancy Controller

The TC8611 T1/E1 Redundancy Controller adds 1+1 redundancy for an existing TDM Telecom infrastructure. It duplicates the incoming host T1/E1 signal and transmits the signal over the primary and secondary T1/E1 lines. Receiving on the primary and secondary lines, the TC8611 decides which T1/E1 signal between the two lines to transmit out to the host T1/E1.

TC8611 can be used along with TC3845-1 T1/E1-over-IP Gateway to allow one path to be over an Ethernet network while the other over a normal TDM connection.

The TC8611 interface card can fit into any available Mini Channel Bank housing option including 1S Standalone chassis and 1U/4U card cages.

Power Redundancy is standard and power supply options available for standalone version are 90-260VAC, 12VDC, 24VDC and -48VDC. Standard operating temperature is -20°C to +70°C and the extreme temperature version is -40°C to +80°C.

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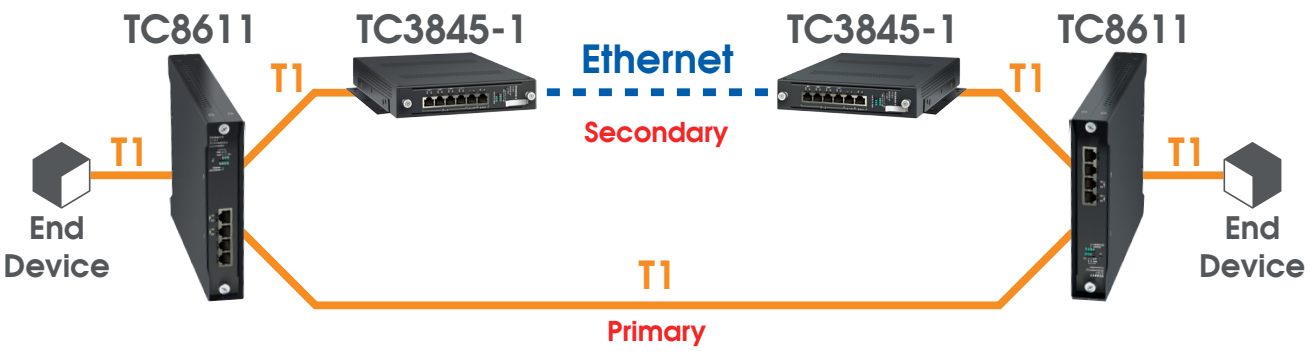
Applications

The TC8611 is designed for networks that need T1 redundancy.

These networks have a primary and redundant secondary line typically used in critical communication applications like public transportation, police and fire, emergency response, and power utilities.



Typical Application using TC8611 T1/E1 Redundancy Controller

Electrical

T1 Interface
- Connector ..... Electrical, RJ-48
- Line Termination ... 100Ω, balanced
- Data Rate 1.544Mbps
- Line Code ..... AMI, B8ZS

E1 Interface
- Connector ..... Electrical, RJ-48
- Line Termination .120Ω (balanced), ...75Ω (unbalanced) via RJ-48 to BNC adapter cable
- Data Rate 2.048Mbps
- Line Code .....AMI, HDB3

System

Bit Error Rate.....1 in 10^9 or Better

Regulatory Approval

CE, FCC Part 15, CISPR (EN55022) CLASS A, IEC 61850-3, IEEE 1613, NEMA TS-2

LEDs

ALM, PWR A, PWR B, Vcc, SIG, AIS, BPV, LB

Power

- Standard 12VDC
- Optional.....24, -48 VDC
- ..... 90-260 VAC, 50/60Hz
- Power Consumption ..... <10W

Operating Temperature

- High Temp ..... -20°C to 70°C
- Extreme Temp ..... -40°C to 80°C

Storage

- Temperature..... -40°C to 90°C
- Humidity .....95% non-condensing

Physical (Standalone Unit)

- Height ..... (3.53 cm) 1.40"
- Width ..... (18.14 cm) 7.20"
- Depth ..... (24.89 cm) 9.80"
- Weight ..... (907 g) 2.0 lbs

Note: Information contained in this data sheet is subject to change without prior notice.

TC COMMUNICATIONS®

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TAA Compliant

TC Communications Quality Management System is certified as being in conformity with ISO 9001:2015 by Intertek

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