2 Channel Voice-over-T1/ E1 Multiplexer

TC8618B-1/2

- 2-ch. FXS (TC8618B-1) or 2-ch. FXO (TC8618B-2)
- Mux 2 ch. 2-Wire Telephone/Fax/ Modem over T1/E1
- ESF Framing Support for T1
- PCM31C Framing Support for E1
- Very Low Latency
- Built-in Power Redundancy
- Rack Mount or Stand Alone



The TC8618B is a 2-channel Voice/Fax/Modem over T1/E1 Multiplexer that allows network managers the flexibility of leveraging T1/E1 circuits by adding low cost analog as needed. Dialing and paging between TC8618B-1 (FXS) units is supported, providing customers flexibility for voice calls. The device is economical, simple to install and comes standard with built-in power redundancy.

The TC8618B is available in two configurations:

- 2-Channel FXS (TC8618B-1)
- 2-Channel FXO (TC8618B-2)

The device requires no additional equipment for T1/E1 link and device verification. Extensive diagnostics are available to quickly identify issues with your FXS/FXO or digital lines. Three different types of loopbacks: local, remote, and T1/E1 loopback assist in isolating whether an issue lies on your FXS/FXO line or your T1/E1 line. CSU Loop Code Up/Down is also supported. Each unit provides Ring/Hook LEDs for verifying signals on each FXS/FXO channel, Power LEDs for verifying power inputs, Alarm LEDs for verifying T1/E1 signal, and a Remote LED to monitor the remote unit.

All products part of the Mini Channel Bank series are equipped with the "R2" button. The "R2" button, 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 TC8618B is compatible with copper line lengths up to 6000ft for 100Ω T1 and up to $2.5 \text{km} 75\Omega$ / 120Ω E1. The T1/E1 uses a RJ48 connector and the analog uses 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. A high temperature version (-20°C to 70°C) and extreme temperature version (-40°C to 80°C) are also available.

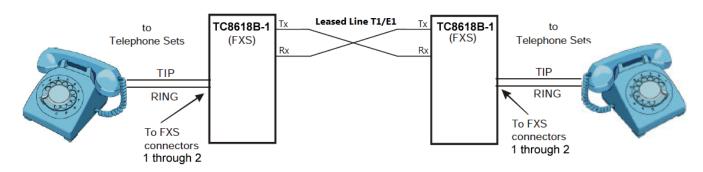


Applications

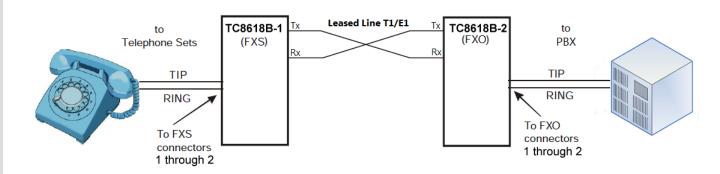
A low cost and immediate solution, the TC8618B is typically used to link analog telephones or legacy dial-up devices including data modems, fax machines, meters, ATM, and credit card machines over T1/E1.

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

Web Site: tccomm.com



Typical Application using the TC8618B Voice/Fax-over-T1/E1



Typical application using TC8618B-1 and TC8618B-2

Interfaces	
TC8618B-12x FXS	
TC8618B-22x FXO	
Connection Capacity	
600Ω (2-Wire)2 Ports	
T1/E1	
T1	
Standard	
Impedance100 Ω	
Receiver sensitivity0dB to -36dB	
Line Code AMI / B8ZS	
FramingESF (Only)	
E1	
Standard	
Impedance	
or 75Ω with BNC adapter Receiver sensitivity0dB to -43dB	
Line Code AMI / HDB3	
FramingPCM31C	
Electrical	
Analog interface	
Impedance600 Ω	
Max Input 3Vp-p	
Frequency band 300 to 3400Hz	
ConnectorRJ-11	

Visual Indicators

Channel Status	Ring, Hook
System PWR A, P	WR B, Vcc, ALM, RMT
T1/E1	AMI,RAI, AIS, CRC
	BPV, LOS, SYNC

System

Bit Error Rate 1 in 109 or better

Alarm

Dry Contact......Normal Open/Closed

Power

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%	

Physical (Standalone Unit)

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





SAIGLOBAL ISO 9001 Quality

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

Web Site: tccomm.com