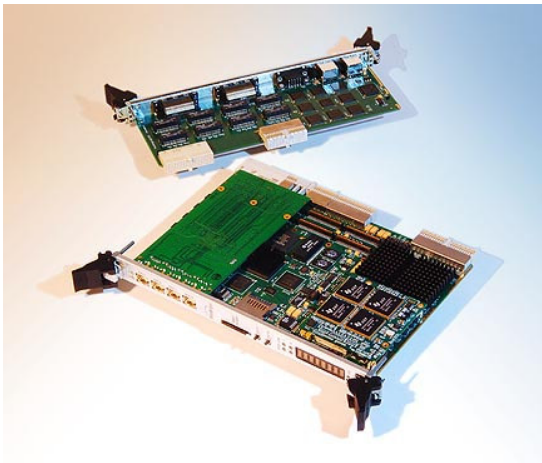


## TB-8 System-Blade™



TelcoBridges' innovative, ultra performing *System-Blade™* is in a class of its own. It allows telecom system integrators to compete effectively by offering a tailor-made option at an extremely affordable price.

The TelcoBridges' *system-on-a-blade™* solution has the reliability, flexibility and superior performance to replace any 4-8 trunk telecom system with a single blade. It is the most cost-effective (the perfect) entry level solution for lower density system requirements and provides an easy introduction to the complete TB *System-Blade™* product line through its common API. Thus it gives system integrators the flexibility to address different market needs with a single platform product.

TelcoBridges' unique TB-8 *System-Blade™* offers:

- Easy integration
- Dynamic configuration
- Non-blocking architecture
- Proven flexibility
- High availability

So far ahead...

...it's in a class of its own!

The TelcoBridges' *System-Blade™* single platform architecture allows you to build new, and upgrade easily existing telecommunication applications, to meet today's requirements for reliability, flexibility and superior performance.

The TB-8 *System-Blade™* allows you to run multiple and different signaling stacks and trunk types on the same blade. Starting at a mere 4 trunks it can be effortlessly upgraded to 8 trunks with additional software. Plus it supports DSP functions on all channels.

All elements, such as signaling variances and trunk types (E1, T1, J1), can be dynamically configured to create a highly available system with amazing performance capabilities.

The TB-8 *System-Blade™* can be easily coupled with a TB *StreamServer™* for superior play and record capability.

### TB-8 System-Blade™ SPECIFICATIONS

#### Line/Network Interfaces

- > 4-8 T1/E1/J1 trunks
- > Trunk configuration (E1/T1/J1) can be changed dynamically on each trunk

#### T1/J1

- Framing : SF, ESF, SLC96
- Line coding: B8ZS, AMI
- Line termination: 100 ohms

#### E1

- Framing: Double frame, CRC multi frame, Automatic detection
- Line coding: HDB3, AMI
- Line termination: 120 ohms

## TB-8 System-Blade™ OPTIONS

### Control and Management

#### Control

- Message-based APIs over Ethernet
- Dual redundant rear panel Ethernet (100/1000 Mbps) or PICMG 2.16 in a dual fabric packet switched backplane (100/1000 Mbps)
- Does not require cPCI CPU server blades

#### Management

- Ethernet port or RS-232C Serial port
- Field upgradeable software and firmware
- Full set of APIs for management

#### High availability and redundancy

- Hot swap (PICMG 2.1 R2.0 Hot Swap Specifications)
- Hot insertion
- Supports application redundancy

#### Diagnostics

- POST: Power On Self-Test
- Local and remote line loopback
- Log and status available for all modules including full performance monitoring

#### Host Operating system

- Host APIs under Solaris, Linux and Windows

### Backplane Interfaces

- Compact PCI (PICMG 2.0, Rev 3.0)
- ECTF H.110 (PICMG 2.5, Rel 2.0), 4096 timeslots fully switchable
- PICMG 2.16 R1.0 Packet Switching Backplane Specifications (PSB)

### Mechanical

- Compact PCI boards
  - ❖ 6U single slot
  - ❖ Front panel(233 x 160mm)
  - ❖ Rear panel(233 x 80mm)
  - ❖ Keying (PICMG 2.10 Rev 1.0)
- Connectors
  - ❖ Up to 8 RJ45 T1/E1 or up to 2 DSX connectors
  - ❖ Dual RJ-45 ethernet
  - ❖ RS232C Serial port

### Power Requirements

- Max 3.3A @ 5v
- Max 13.1A @ 3.3v
- <0.1A @ -12v
- Total board power consumption less than 60W

### Environment

As these specifications are being revised on a regular basis for up to the minute details, please check:

[www.telcobridges.com](http://www.telcobridges.com)

### Signaling

- Signaling type and variant can be changed dynamically on each trunk

#### SS7 (see TB-SS7 Spec Sheet)

- MTP1, MTP2, MTP3, ISUP, SCCP, TCAP
- #### ISDN
- Q.921 LAPD
  - Q.931 ISDN PRI
    - ❖ TR41459 (NI-2, Lucent 4ESS and 5ESS, Nortel DMS-100, Nortel DMS-250)
    - ❖ Euro ISDN ETSI NET5 (French, German, UK, China, Hong-Kong, and Korea)
    - ❖ Japanese NTT INSnet500
    - ❖ Australian TS-014 and TS-038

#### CAS

##### CAS variants

- ❖ MFC-R2
- ❖ Wink Start
- ❖ FXS Ground Start
- ❖ FXS Loop Start
- ❖ FXO
- ❖ Taiwan modified R1

### Media Processing

- Functions are available on all channels
- DSP supports up to 496 channels
- DSP software license available on a per channel basis

#### Voice Processing

- G.711 PCM 64kbps, Alaw or μlaw
- Alaw to μlaw conversion on all channels
- Play and record on all channels
- Voice Activity Detection(VAD) and Comfort Noise Generation (CNG)
- Automatic Gain Control (AGC)
- Volume Control

#### Tone Processing

- Tone detection and suppression
- Programmable tone generation

#### Conferencing

- Up to 132 participants per conference, with unlimited number of listeners

### VoIP

- Optional VoIP mezzanine
- Up to 2424 channels of G.711 20ms with 128ms echo tail
- See VoIP spec sheet for full specifications

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#### ABOUT US

TelcoBridges is clearly defining the future of enabling communications technologies. By supplying the industry's best telecom platform, TelcoBridges is helping system integrators worldwide realize their bright ideas. Since 2002, TelcoBridges' customers create carrier-grade telecom solutions used by the world's largest operators in more than 30 countries.

Finalist "2006 Canada Innovation Award": Development of Export Sales