



Asterisk® T1/E1 Redundancy, High Availability and Simplified Installation in an Economical Package



Overview

foneBRIDGE2 is a T1/E1 PRI-to-Ethernet Bridge. It is an integrated black-box "appliance" designed to streamline installation and enable redundant design of Asterisk based VoIP systems.

foneBRIDGE2 eliminates the need to install proprietary TDM hardware cards in approved/compatible server configurations. Instead, foneBRIDGE2 terminates T1/E1 PRI lines on the trunk side and provides direct Ethernet communication to a network of Asterisk servers using native Asterisk TDMoE formats and utilities.

Engineered around our unique high-speed SoC (System-on-Chip) TDMoE engine, foneBRIDGE2 provides low-latency delivery of your critical voice traffic.

Target Applications

- T1/E1 PRI Trunk termination
- Legacy PBX-to-Asterisk integration
- Simple, single server installs
- Complex, HA Asterisk clusters
- Channel Bank connectivity
- Mixed telephony environments (T1 and E1)
- Blade Servers where PCI slots are not available

Echo Cancellation

- On-board high speed digital signal processing with TI's 6000™ DSP platform
- Adaptive Digital "carrier class" G.168.v8 patented echo canceller
- 128ms (1024 taps) of echo tail
- Comfort Noise Generator
- Automatic tail search, fast convergence, and no divergence due to double talk
- Tone disabler for clear fax and modem communication

Key Features

Failover & Asterisk HA Enabled

- High-Availability through rapid failover capabilities ensures your critical telephony services are always on and available

Flexible Configuration

- Configurable on a per-port basis, foneBRIDGE2 allows you to mix multiple telephony standards on a single deployment. Field upgradeable

Solid State Embedded Appliance

- No moving components
- Low heat and power consumption
- High MTBF (mean time before failure)

Standards

Telephony

- PRI Switch Compatibility– EuroISDN, AT&T 4ESS, DMS 100, Lucent 5E, NI1/NI2; Network or CPE
- Line Interface– Single, Dual or Quad T1/E1 (RJ45), per port configurable
- Line Encoding– AMI/B8ZS for T1, AMI/HDB3 for E1
- Super Frame (SF) and Extended Super Frame (ESF)
- Robbed Bit Signaling (RBS/CAS)
- Short and Long Haul line build out (LBO)
- Adaptive Equalizer for line attenuation conditioning
- MFC/R2, SS7 support with 3rd party libraries

Ethernet

- 10/100-BASE-TX Half/Full-duplex
- 2 x Dedicated RJ45

Specifications

- Electrical: DC 500mA Max @ 5V (2.5W)
- Environmental: 0 to 50 deg C operating
- Physical:
 - Dimensions: 5.00" x 6.50" x 1.00"
 - Weight: 1 pound
 - Mounting: Flange Mount, Desktop or rack-mount

Models

- Single, Dual and Quad T1/E1
- Optional on board echo cancellation
- Optional 1U Rackmount upgrade

