



ENTERPRISE VoIP SOLUTION

## Elite Gateway 800

**ibrige Elite Gateway 800** is a cost effective and highly reliable Voice over IP (VoIP) gateway that offers toll quality voice and real-time fax data over IP networks. With its embedded architecture, ibridge Elite gateway 800 is ideal for VoIP applications associated with Small-to-Medium size Business (SMB), Remote Office and Branch Office (ROBO), and ISP/ITSP markets.



**Elite Gateway 800**

### Features

- Supports 4 or 8 channels of real-time voice and fax in a single embedded box.
- Modular design to accommodate various types of telephony interfaces.
- Field programmable CP tone detection and generation to support PBX and CO line interconnections.
- Supports programmable line interfaces with country specific telephone settings.
- Supports ITU standard vocoders and voice processing algorithms including G.711, G.723.1, and G.729 A/B, and G.168 Echo Cancellation.
- User friendly management including console port interface, HTTP and Telnet servers, and Elite Server for VoIP related management such as call control and dial plan set up.
- Built-in TFTP and flash memory for software download and upgrade via network.
- H.323 call control protocol compliant.
- QoS support for VoIP packets.

## Technical Specifications

- **Digital Signal Processors**
  - One TI TMS320VC5409 DSP per module.
  - 100 MIPS per DSP processor.
  - On-chip memory: 32K word of SRAM, 16K word of ROM
  - Local SRAM 128K x 16 for each DSP.
  
- **Control Processor**
  - 32-bit ARM7 TDMI core.
  - 8K byte unified cache.
  - 4K words Write buffer.
  - Embedded on-chip Ethernet MAC with associated BDMA.
  - Local 2M x 16 SDRAM and 1M x 16 Flash.
  
- **I / O**
  - Standard 10/100 BaseTX RJ 45 interface.
  - RJ 11 Loop Start interfaces for FXS / FXO.
  - RJ 45 for E&M Type V 4w Interface.
  
- **Mechanical, Environment & Power**
  - LxWxH = 438.00 x 270.60 x 43.60mm.
  - 19" Rack mountable or desktop.
  - Operating temperature 32 - 122°F (0°C - 50°C).
  - Operating humidity 10 - 95% (non-condensing).
  - Storage temperature: 14 to 140 °F (-10 to 60°C).
  - AC-to-DC power supply (90-260 VAC, auto-ranging, 50-60 Hz.).
  
- **Compliance**
  - CE.
  - FCC part 15 A.
  - FXS/FXO (Compliant with ITU-T G.712).
  - UL.

## Software

- **Speech**
  - **Compression algorithms ITU G. 711, G.723.1 & G.729A/B.**
  - **Hybrid echo cancellation G.168 (16 ms).**
  - **Auto switch between Fax and voice**
  - **DTMF tone detection/regeneration.**
  - **Channel: four channels per module.**
  - **Comfort Noise Generation (CNG).**
  - **User programmable Call Progress detection/generation.**
  - **Voice Activity Detection (VAD).**
  - **User programmable Gain Control.**
  
- **Fax**
  - **Facsimile protocol: T.30 Group 3, T.38.**
  - **Modulation formats: V.21, V.27ter, V.29, V.17.**
  - **Real-time fax over IP.**
  - **DTMF tone detection/regeneration.**
  
- **Management Tools**
  - **RS 232 console port interface.**
  - **HTTP Server.**
  - **Telnet Server.**
  - **Elite Server for RAS and dial plan management.**
  - **TFTP and flash memory for remote software download and upgrade H.323 Protocol Stack.**
  - **RAS sub-stack for Terminals and Gatekeepers: supports all mandatory and optional messages (Tx and Rx) as specified in table 19/H.255.0.**
  - **H.245 sub-stack: supports the Signaling Entities of Master Slave Determination, Capability Exchange, Open Logical Channels, and Close Logical Channels.**
  - **Q.931 sub-stack: supports all mandatory messages as specified in table 4/H.255.0.**
  - **Compliant with H.323 Version 1, Version 2, and Version 3.**