

InstaVoIP™ 516-POE Module



516-POE Module in a 2 Gang Box

516-POE Sample applications

- IP Speaker Phone
- IP Intercom Systems
- IP Loud Speaker
- IP Ceiling Speaker
- IP Elevator Communications/Music
- IP Paging
- IP Door Entry
- IP Emergency Phones
- IP Parking Garage Entry
- IP Remote Music Speakers

About the 516-POE Module

Based on a powerful Analog Devices Blackfin™ processor, the InstaVoIP™ 516-POE Module is a low-cost standalone hardware/software platform designed for a 2 gang box or larger enclosure. The 516-POE Module is a SIP compliant full-duplex speaker phone board, complete with Power over Ethernet (PoE), an 4 Ohm speaker driver, and an on-board driver for door latches and other devices (supporting up to 12V/24V and 2A or a 5V Relay). The 516-POE Module has 4 Mbytes of flash and 16 Mbytes of SDRAM, providing plenty of room for application specific features. Support for 48 KHz capable stereo audio codec is provided as well.

516-POE Module Features

The software for the 516-POE Module is available in two varieties: a combination object code and ANSI C source code release, or a full ANSI C source code release.

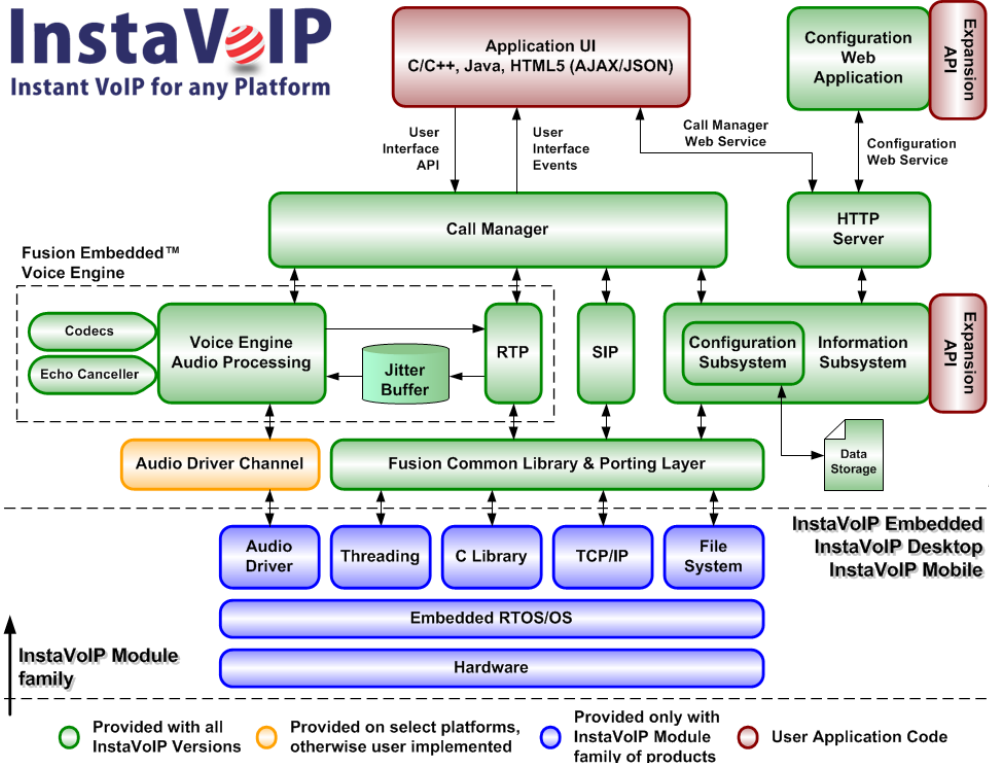
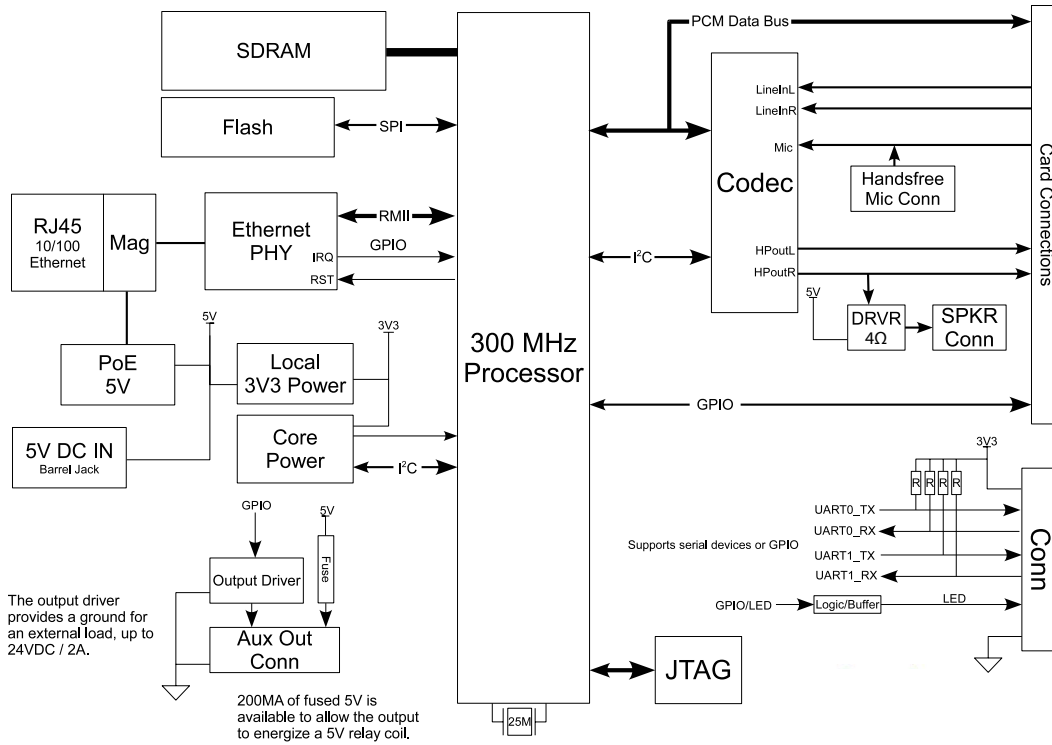
516-POE Module Hardware

- Support for 12/24VDC Door Latches or 5V Relay
- 1 10/100 PoE 802.3af Ethernet Connection
- 300 MHz Processor speed (Optional 400 MHz)
- 4 Mbytes Flash, 16 Mbytes SDRAM
- 4 Ohm Speaker Driver, and 2 UARTs
- 2 channel Audio Codec with sampling rates up to 48KHz
- Dimensions: 2.75 × 4.125 in
- Industrial Temperature: -40°C to +85°C

- Fusion RTOS
- Fusion TCP/IPv4/IPv6
- Fusion Voice Engine with RTP
- **Fusion Voice Engine Codecs:** G.711, G.726 (16/24/33/40 kbps), G.722, DVI4 (narrow/HD/ Ultra HD), iLBC, Speex. *Optional G.729*
- **VoIP Call Manager** includes support for incoming calls, outgoing calls, hold, conferencing, transfers, mic/speaker volume control and mute, etc.
- **SIP/SDP. *Optional Security*** (SIPS, SRTP, HTTPS)
- **Web Server** with Extendible Configuration Web App and Configuration and Control Web Services
- **Configuration Engine** is file-based or can integrate with other platform standards
- **Intelligent Boot Loader, Boot image failover** with support for Compressed Code Images

InstaVoIP 516-POE Module

Comprehensive Hardware Diagram



Distributor: **NeoMore** 23 rue des Poiriers F-78370 PLAISIR FRANCE +33 1 30 64 15 81 www.neomore.com