

## ADT LC IP Phone Reference Design

Adaptive Digital Technologies, Inc.

The Low-cost IP Phone (LC IPP) Reference Design is a complete, fully tested, IP Phone design that enables OEMs to build an IP phone. The LC IPP has been jointly designed and developed by Texas Instruments (TI) and Adaptive Digital Technologies, Inc. (Adaptive Digital).

The Adaptive Digital Software is a complete SIP phone application, including call control, protocol stack (SIP, TCP/UDP/IP, RTP, STUN), G.711, G.729AB, acoustic echo control, tone handling, and AGC.

The hardware, based around the TI TNETV2502, includes RAM, Flash Memory, Ethernet Interface, LCD Display, DTMF Keypad and Handset.

For debug,  
RS232 and JTAG  
Interfaces are  
included as well.



Features can be added to this baseline design by adding additional hardware and/or software to increase the level of functionality of the IP phone depending on the market directions and conditions.

Optional Feature Sampling:

- Line Echo Canceller (ATA)
- Speaker phone
- Call transfer
- Call hold
- Call forward
- 3-way calling

### BENEFITS

- Field proven Adaptive Digital Software
- Leverage TI DSP technology
- Complete, tested, reference design
- Rapid time to market
- Vastly reduces the bill of materials costs associated with producing an IP Phone
- Production documentation available

### SPECIFICATIONS

Software	Hardware
Protocols SIP TCP/UDP/IP RTP STUN Signal Processing G.711 with packet loss concealment and DTX G.729AB Acoustic Echo Control Tone handling AGC OEM Phone Configuration Tools	TNETV2502 DSP AIC26 Codec 256Kx16 SRAM 256Kx16 Flash Memory 1KB Serial EEPROM 10BaseT Ethernet MAC/PHY 4x4 Keypad 2x24 LCD Enclosure Handset



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