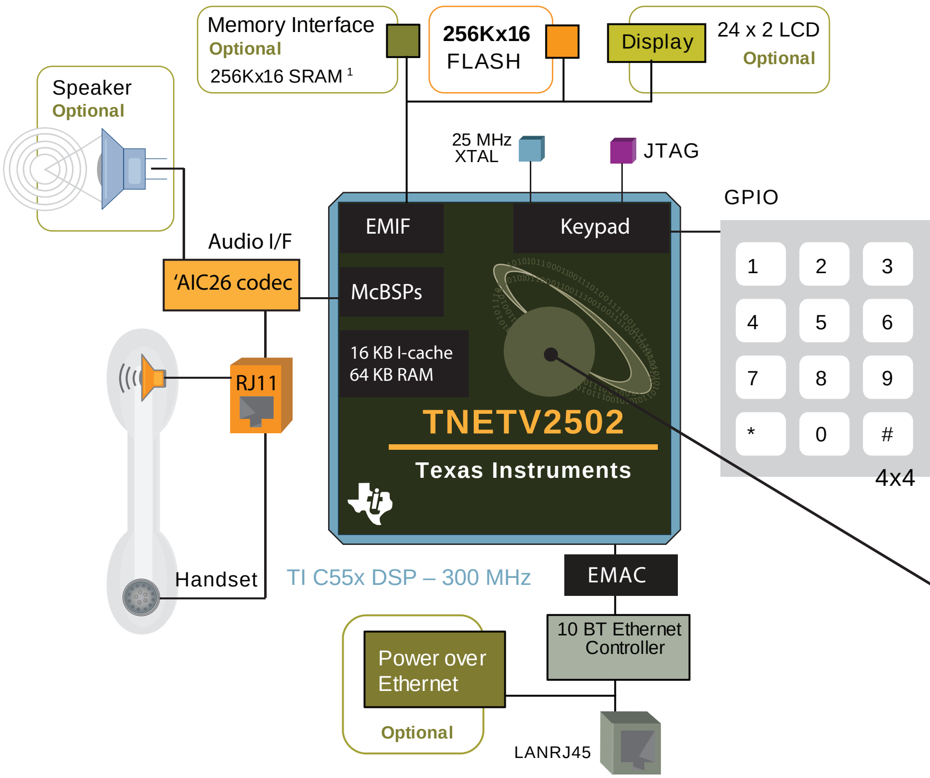
Adaptive Digital Technologies Low End IP Phone *Reference Design - TNETV2502*



Adaptive Digital SW

Protocols

SIP
UDP/IP
RTP
STUN

Signal Processing

G.711 appedices 1 & 2
/ with PLC & DTX*
G.729AB
Acoustic Echo Control (AEC)
VAD
AGC
RFC 2833 DTMF relay support
Tone handling

LEIPP - Low-cost Low End IP Phone Reference Design
TNETV2502 Software Features - Object code w/ no modification

- *Single voice channel with G.711 and G.729AB codecs*
- *Conferencing handled by the gateway*
- *Additional channels or codecs possible via customization with ADT*
- *RTP packetization with configurable periods of 10, 20, and 30 msec.*
- *Handset support with an Acoustic Echo Suppressor (AES)*
- *Group listen speaker mode with volume control (Not a full duplex speaker phone)*
- *RFC 2833 DTMF relay support*
- *Configurable 100 millisecond jitter buffer.*
- *Tone generation – DTMF or fixed tone for echoing key presses on keypad.*
- *Tone generation*
- *Allows for any configurable sequence of tones to be generated towards the phone or network or both.*
- *Packet loss concealment compliant with G.711 appendix I*
- *Comfort noise generation*
- *Voice Activity Detection*
- *Acoustic gain control.*
- *Support for a single Ethernet interface, 3x4 keypad, hook-switch and other control switches, LEDs, and a 2x24 or similar LCD.*
- *Call control & management*
- *Supports RFC 3261 and 3550 SIP signaling and RTP media stream protocols.*
- *Supports SIP authentication, invite, ring, ack, ok, bye and termination messages.*
- *Supports all supplementary services implemented in the network / gateway*
- *Supports configurable unique SIP username and password (credentials) in non-volatile memory.*
- *Supports MD5 digest authentication.*
- *Supports SIP user agent interoperability with proxy servers.*
- *outgoing & incoming calls, call waiting, conferencing, call forward and call transfer.*
- *Supports configurable digit map for dialing support.*
- *Networking*
- *Supports DHCP and DNS clients, IPv4/UDP/TCP.*
- *Supports STUN for NAT traversal.*

ADAPTIVEDIGITAL

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.

*PLC - Packet loss concealment
DTX - Discontinuous transmission

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