Product Overview

Grandstream IP Phone is an award-winning next generation IP network telephone based on industry open standards. Built upon innovative technology, Grandstream IP Phone features market leading superb sound quality and rich functionalities at ultra-affordable price.

Key Features

- Support SIP 2.0, TCP/UDP/IP, RTP/RTCP, HTTP, ARP/RARP, ICMP, DNS, DHCP, NTP, TFTP protocols
- Support NAT traversal via STUN & symmetric RTP
- Support SIP SIMPLE standard for Instant Messaging and Presence (Model 102D)
- Interoperable with various 3rd party SIP end user device, Proxy/Registrar/Server, and gateway products
- Advanced Digital Signal Processing (DSP) to ensure superb hi-fidelity audio quality
- Advanced and patent pending adaptive jitter buffer control, packet delay & loss concealment technology
- Support popular vocoders including G.723.1 (5.3K/6.3K), G.729A/B, G.711 (a-law and u-law), G.726, G.728, and wide-band G.722 (Model 102D). Dynamic negotiation of codec and voice payload length
- Support standard voice features such as Caller ID Display or Block, Call Waiting, Hold, Transfer, Forward, FLASH, in-band and out-of-band DTMF (RFC2833), Dial Plans, off-hook auto dial, configurable emergency dialing (e.g., 911), early dial, click-to-dial
- Support 3-way conferencing (Model 102D), full duplex hands-free speakerphone, superior frequency domain acoustic echo cancellation (pending), redial, call log, volume control, voice mail with indicator, downloadable ring tone (pending)
- Support Silence Suppression, VAD (Voice Activity Detection), CNG (Comfort Noise Generation), Line Echo Cancellation (G.168), and AGC (Automatic Gain Control)
- Support DIGEST authentication and encryption using MD5 and MD5-sess.
- Provide easy configuration thru manual operation (phone keypad and Web interface) or personalized automated provisioning via central configuration file for mass deployment.
- Support for Layer 2 (802.1Q VLAN, 802.1p) and Layer 3 QoS (ToS, DiffServ, MPLS)
- NAT-friendly remote software upgrade capability (via tftp) even from behind firewalls/NATs.
- Built-in alarm-clock, music on hold and downloadable music ringing tone (Model 102D)
- Support for fail-over SIP server and DNS server (pending)

Hardware Specification

Spec/Model	BudgeTone-101	BudgeTone-102	BudgeTone-102D
LAN interface	1xRJ45 10Base-T	2xRJ45 10Base-T	2xRJ45 10Base-T
Phone Case	12-digit caller ID LCD	Same as left	16x2 character LCD
Universal Switching Power	In: 100-240V AC Out: +5V DC, 400mA	Same as left	Same as left
	18(W)x22(D)x6.5(H)	Same as left	Same as left
	2 lbs (0.9 kg)	Same as left	Same as left
Operating Temperature	32 - 104 ^{o}F (0 - 40 ^{o}C)	Same as left	Same as left
Humidity	10%-95%	Same as left	Same as left
Compliance	FCC/CE certified	Same as left	Pending