

## Product Overview



Grandstream HandyTone ATA-286 is an award-winning next generation VoIP analog telephone adaptor based on industry open standards. Built upon innovative technology, Grandstream HandyTone ATA-286 features market leading superb sound quality, compact size, and rich functionalities at highly-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 using IETF STUN and symmetric RTP (compatible with Cisco's ATA-186, etc)
- Advanced Digital Signal Processing (DSP) to ensure superb hi-fidelity audio quality
- Provides 1 LAN port and 1 FXS interface for any analog telephones, cordless phones, and fax machines
- Support transparent Fax pass-through and in the future T.38 (pending)
- Interoperable with various 3<sup>rd</sup> party SIP end user device, Proxy/Registrar/Server, and gateway products
- Advanced and patent pending adaptive jitter buffer control, packet delay and loss concealment technology
- Support popular codecs including G.723.1 (5.3K/6.3K), G.729A/B, G.711 (a-law and u-law), G.726, and G.728. Dynamic negotiation of codec and voice payload length
- Support standard voice features such as Caller ID Display or Block, FLASH, in-band and out-of-band DTMF (RFC2833), Dial Plans, off-hook auto dial, early dial, click-to-dial
- Support acoustic echo cancellation, 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 (attached analog phone keypad and voice prompt, 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.
- Support for fail-over SIP server and DNS server (pending)



## Hardware Specification

HandyTone ATA-286	Details
LAN interface	1xRJ45 10Base-T
Telephone interface (FXS)	1xRJ11
Exterior	Black plastic case, 1 configuration button with tri-color indicator LED
Universal Switching Power Adaptor (UL certified)	In: 100-240V AC Out: +5V DC, 1.2A
Dimension	5.6cm (W) x 9cm (D) x 2.8cm (H)
Weight	0.6 lbs (0.3 kg)
Operating Temperature	32 - 104 °F (0 - 40 °C)
Humidity	10%-95%
Compliance	FCC/CE (pending)