

# HandyTone 502 Analog Telephone Adaptor



**HandyTone 502** is the next generation of powerful, affordable, high quality and manageable IP telephony ATA/IAD for residential users and road-warriors. Its compact size, excellent voice quality, packed feature functionality and market leading price-performance point enable consumers to maximize the power of IP voice and data connectivity for a minimal investment. The HandyTone 502 is SIP standard compliant and features 2 FXS ports, dual 10M/100Mbps network ports, port status and message waiting LED, and a base stand for vertical positioning.

## Key Features:

- 2 FXS telephone ports (RJ11), dual 10/100 Mbps network ports (RJ45) with integrated high performance NAT router
- Status LED for power, telephone and network ports, and message waiting indication
- Advanced telephony features including caller ID, call waiting, 3-way conference, transfer, forward, do not disturb, message indication, multi-language voice prompts, T.38 fax, flexible dial plan, direct IP calling
- Comprehensive voice codecs including G.711(a/u-law), G.723.1, G.729A/B/E, G.728, G.726-40/32/24/16 and iLBC
- UPnP, secure and automated provisioning using HTTP/HTTPS/Telnet/TFTP
- Up to 2 SIP account profiles, SIP over TCP/TLS
- Symmetric and asymmetric voice codec/RTP in any call sessions

**Grandstream Networks, Inc.** [www.grandstream.com](http://www.grandstream.com)

Boston, Massachusetts  
1297 Beacon Street, 2F  
Brookline, MA 02446  
1-617-566-9300

Dallas, Texas  
2828 W.Parker Rd, Suite 102  
Plano, TX 75075  
1-469-241-0100

Los Angeles, California  
1301 John Reed Ct.  
City of Industry, CA 91745  
1-626-956-0260

Shenzhen, China 518057  
Bldg#1, No.2 Kefa Rd  
Science & Technology Park  
86-755-89805190

# HandyTone 502 Technical Specifications

<b>Telephone Interfaces</b>	2 FXS ports (RJ11)
<b>Network Interfaces</b>	Two (2) 10M/100Mbps ports (RJ-45)
<b>LED Indicators</b>	Power, WAN, LAN, PHONE1 and PHONE2
<b>Reset Button</b>	Factory reset button
<b>Telephony Features</b>	caller ID display or block, call waiting with caller ID, flash, blind or attended call transfer, hold, call forward, do not disturb, 3-way conferencing
<b>Voice Codec</b>	G.711 Annex I (PLC) and Annex II (VAD/CNG format), G.723.1A, G.729A/B/E, G.728, G.726-40/32/24/16, iLBC
<b>Voice over Packet Capabilities</b>	Voice Activity Detection (VAD) with Comfort Noise Generation (CNG) and Packet Loss Concealment (PLC), Dynamic Jitter Buffer, G.168 compliant Line Echo Cancellation
<b>Fax over IP</b>	T.38 compliant Group 3 Fax Relay up to 14.4kpbs, Fax Datapump V.17, V.19, V.27ter, V.29 for T.38 fax relay
<b>DHCP Server/Client</b>	Yes, can operate in NAT Router or Switched Mode
<b>NAT Router</b>	
<b>Network Protocols</b>	TCP/UDP/IP, RTP/RTCP, HTTP/HTTPS, ARP/RARP, ICMP, DNS, DHCP, NTP, TFTP, TELNET, PPPoE, STUN
<b>QoS</b>	Support Layer 2 (802.1Q VLAN, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS
<b>IP Signaling</b>	SIP (RFC 3261), SIP over TCP/TLS, up to 2 SIP account profiles, symmetric and asymmetric RTP/codec in any call sessions
<b>DTMF Method</b>	RFC2833, and/or SIP INFO
<b>Provisioning &amp; Management</b>	UPnP, TFTP, HTTP, HTTPS, Telnet, secure and automated provisioning system for large deployment, syslog
<b>Universal Power Supply</b>	Output: 12VDC, 0.5A; Input: 100-240 VAC, 50-60 Hz
<b>Environmental</b>	Operational: 32°-104°F or 0°-40°C; Storage: 10°-130°F; Humidity: 10-90% Non-condensing
<b>Dimensions (H x W x D)</b>	25mm x 115mm x 75mm (when laying flat); 115mm x 25mm x 75mm (standing up)
<b>Short and long haul</b>	3 RENs:Up to 150 ft on 24 AWG line
<b>Caller ID</b>	Bellcore Type 1 & 2, ETSI, BT, NTT, and DTMF-based CID
<b>Polarity Reversal / Wink</b>	Yes
<b>EMC</b>	FCC/CE, EN55022/EN55024 and FCC part15 Class B
<b>Safety</b>	UL

