

HandyTone Series Technical Specifications

HandyTone Series Analog Telephone Adaptors

HandyTone Series Comparison Chart

Features / Model	HT-286	HT-386	HT-486	HT-488	HT-496
Network Ports	1xRJ45 10Mbps (LAN)	1xRJ45 10Mbps (LAN)	2xRJ45 10Mbps (LAN/WAN)	2xRJ45 10Mbps (LAN/WAN)	2xRJ45 10Mbps (LAN/WAN)
Router/NAT/Gateway and DMZ Port Forwarding	No	No	Yes	Yes	Yes
Bridge Mode Support	No	No	Yes	Yes	Yes
DHCP	Client	Client	Client/Server	Client/Server	Client/Server
FXS Port	1	2	1	1	2
FXO or Port / PSTN Pass-through	No	PSTN Pass-through	PSTN Pass-through	FXO	No
Lifeline	No	Yes	Yes	Yes	No
Voice Mail Indicator	Yes	Yes	Yes	Yes	Yes
Dual SIP Accounts	No	Yes	No	Yes	Yes
Voice Codec	G.711(a-law, u-law), G.723.1(5.3K/6.3K), G.726(32k), G.729A/B, iLBC, and T.38 Fax				
Remote Configuration	Integrated IVR, web browser or TFTP/HTTP				
Fax Pass-through	(PCMU and PCMA) and T.38 FoIP				

FXO port allows local and remote PSTN-to-VoIP call origination and VoIP-to-PSTN call termination, automated call routing through PSTN, and power fail-over. PSTN Pass-through allows local PSTN line service for incoming/outgoing call and failover.

HandyTone Series - Hardware Specifications

Features / Model	HT- 286	HT-386	HT- 486	HT- 488	HT- 496
Ethernet Ports	1 RJ45 (LAN) 10Mbps	1 RJ45 (LAN) 10Mbps	2RJ45 10Mbps (LAN/WAN)	2RJ45 10Mbps (LAN/WAN)	2RJ45 10Mbps (LAN/WAN)
FXS Port	1	2	1	1	2
FXO Port / PSTN Pass-through	No	PSTN Pass-through	PSTN Pass-through	FXO	No
Lifeline	No	Yes	Yes	Yes	No
Universal Switching	Input: 100-240VAC 50-60 Hz	Input: 100-240VAC 50-60 Hz	Input: 100-240VAC 50-60 Hz	Input: 100-240VAC 50-60 Hz	Input: 100-240VAC 50-60 Hz
Power Adaptor	Output: +5VDC, 1200mA / UL Certified	Output: +5VDC, 1200mA / UL Certified	Output: +5VDC, 1200mA / UL Certified	Output: +5VDC, 1200mA / UL Certified	Output: +5VDC, 1200mA / UL Certified
Dimension (LxWxH)	93mm x 65mm x 27mm	130mm x 70mm x 27mm	130mm x 70mm x 27mm	130mm x 70mm x 27mm	130mm x 70mm x 27mm
Weight	0.57 lbs (0.26kg)	0.6lbs (0.3kg)	0.6lbs (0.3kg)	0.6lbs (0.3kg)	0.6lbs (0.3kg)
Operation Temperature	32 - 104°F 0 - 40°C	32 - 104°F 0 - 40°C	32 - 104°F 0 - 40°C	32 - 104°F 0 - 40°C	32 - 104°F 0 - 40°C
Humidity	10% - 90% (non-condensing)	10% - 90% (non-condensing)	10% - 90% (non-condensing)	10% - 90% (non-condensing)	10% - 90% (non-condensing)
Compliance	FCC/CE/C-Tick	FCC/CE/C-Tick	FCC/CE/C-Tick/A-Tick	FCC/CE/C-Tick	FCC/CE/C-Tick



HandyTone Analog Telephone Adaptors/IAD series offers a comprehensive line of affordable VoIP access devices based on Grandstream's innovative and proprietary technology. The HandyTone series offers IP telephone users superb audio quality, rich functionalities, interoperability with leading 3rd party SIP products, and compatibility with most VoIP service providers. The HandyTone series is ultra-compact, works with any PSTN or cordless phone and fax machines and offers the simplicity of plug-and-dial, making it ideal for residential and SOHO users.

The HandyTone products have received the prestigious "Best of Show", "Product of The Year" and "TMC Labs Innovation" awards at Internet Telephony Conference & Expo and from Internet Telephony Magazine.

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HandyTone - 286

HandyTone 286 is a next generation single port analog telephone adaptor based on SIP standard. HandyTone 286 features superb sound quality, rich functionalities, and a compact design.

Benefits

- Full Feature Voice/Fax-over-IP
- Ultra-compact and lightweight
- Universal Plug and Dial



HandyTone 286 Analog Telephone Adaptor

HandyTone - 386

HandyTone 386 is a next generation dual-port port analog telephone adaptor based on SIP standard. It supports two independent SIP accounts or SIP server platforms and a PSTN pass through line for toggling operations between SIP and PSTN networks.

Benefits

- Full Feature Voice/Fax-over-IP
- Universal Plug and Dial
- 2 FXS Ports (Telephone or Fax)
- PSTN Pass-Through port



HandyTone 386 Analog Telephone Adaptor

HandyTone - 486

HandyTone 486 is a next generation Internet data, voice, fax and PSTN "all-in-one" integrated access device based on SIP standard. HandyTone 486 features a high-level of integration including an integrated router, NAT, DHCP server, 1 port FXS telephone gateway, and a PSTN pass through line for toggling operations between SIP and PSTN networks.

Benefits

- All-In-1 VoIP IAD
- Full Feature Voice/Fax-over-IP
- Integrated Router, NAT and Gateway
- 1 port FXS Telephone Gateway
- PSTN Pass-Through port



HandyTone 486 Analog Telephone Adaptor

HandyTone - 488

HandyTone 488 is a next generation Internet data, voice, fax and PSTN "all-in-one" integrated access device based on SIP standard. HandyTone 488 features a high-level of integration including an integrated router, NAT, DHCP server, 1 port FXS telephone gateway, and 1 port fully programmable FXO gateway for toggling operations between SIP and PSTN networks. HandyTone 488 supports independent SIP account or SIP server platform per each FXS and FXO port.

Benefits

- All-In-1 VoIP IAD
- Full Feature Voice/Fax-over-IP
- Integrated Router, NAT and Gateway
- 1 port FXS Telephone Gateway
- 1 programmable port FXO Gateway



HandyTone 488 Analog Telephone Adaptor

HandyTone - 496

HandyTone-496 is a next generation dual-port SIP IAD for Internet data, voice, and fax. HandyTone 496 supports 2 independent SIP accounts or SIP server platforms and features a high-level of integration including an integrated router, NAT, DHCP server, dual FXS port gateway.

Benefits

- All-In-1 VoIP IAD
- Full Feature Voice/Fax-over-IP
- Integrated Router, NAT and Gateway
- 2 FXS ports



HandyTone 496 Analog Telephone Adaptor

HandyTone Series - Technical Specifications

SIP Accounts Allowed	1 SIP account (HT-286, HT486); 2 SIP accounts (HT386, HT488, HT496)
Protocol Support	SIP 2.0 (RFC 3261), TCP/UDP/IP, RTP/RTCP, HTTP, ARP/RARP, ICMP, DNS, DHCP, NTP, TFTP, PPPoE protocols
Feature Keys	1 dual color LED button (for event status, message indication, and configuration)
LAN Interface	RJ45 10Mbps (all models)
WAN Interface	RJ45 10Mbps (HT- 486 / HT- 488 / HT- 496)
Provisioning	Web interface or via secure (AES encrypted) central configuration file for mass deployment Support Layer 2 (802.1Q VLAN, 802.1p) and Layer 3 QoS (ToS, DiffServ, MPLS) Fixed IP or DHCP; automated NAT traversal via STUN NAT-friendly remote software upgrade (via TFTP/HTTP)
Audio Features	Advanced Digital Signal Processing (DSP) Dynamic negotiation of codec and voice payload length Support for G.723,1 (5.3K/6.3K), G.729A/B, G.711 μ L/A, G.726, and iLBC codecs In-band and out-of-band DTMF (in audio, RFC2833, SIP INFO) Silence suppression, VAD, CNG, AGC Adaptive jitter buffer control with packet delay and loss concealment
Call Handling Features	Caller ID display or block, call waiting caller ID, flash, call transfer, hold, forward, mute, 3-way conferencing
Security	DIGEST authentication using MD5/MD5-sess; secure configuration file via AES encryption
Physical Design	Stylish and compact design; small universal power supply, ideal for travel