



HT812

Powerful 2-port ATA with Gigabit NAT Router

The HT812 is an advanced 2-port analog telephone adapter (ATA) with 2 FXS ports and an integrated Gigabit NAT router. Built upon Grandstream's market-leading SIP ATA/gateway technology with millions of units successfully deployed worldwide, this powerful ATA features exceptional voice quality in various application environments, strong encryption with unique security certificate per unit, automated provisioning for volume deployment and device management, and outstanding network performance for home and office use.



Supports 2 SIP profiles and 2 FXS ports



Strong AES encryption with security certificate per unit



Automated & secure provisioning options using TR069



3-way voice conferencing per port



Exceptional voice quality with wideband HD codec



Supports T.38 Fax for reliable Faxover-IP



Supports dual Gigabit network ports



High performance NAT router









Telephone Interfaces Two (2) PXS ports	Interfaces	
LED Indicators POWER, LAN, WAN, PHONE1, PHONE2 Factory Reset Button Yes Voice, Fax, Modem Telephony Features Caller ID display or block, call waiting, flash, blind or attended transfer, forward, hold, do not disturb, 3-way conference Voice Codecs G-711 with Annex I (PLC) and Annex II (WAD/CNG), G.723.1, G.729A/B, G.726, iLBC, OPUS, dynamic jitter buffer, advanced line echo cancellation Fax Over IP T.38 compliant Group 3 Fax Relay up to 14.4kpbs and auto-switch to G.711 for Fax Pass-through Short/Long Haul Ring Load 3 REN, up to 1km on 24AWG line Caller ID Belicore Type 1 & 2, ETSI, BT, NTT, and DTMF-based CID Disconnect Methods Busy Tone, Polarity Reversal/Wink, Loop Current Signaling Network Protocols TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP/RARP, ICMP, DNS, DHCP, NTP, TFTP, TELNET, STUN, SIP/RFC3261), SIP over TCP/TLS, SRTP, TR-069 Qos Layer 2 (802.1Q VLAN, SIP/RTP 802.1p) and Layer 3 (ToS, Diffserv, MPLS) DTMF Method In-audio, RFC2833 and/or SIP INFO Provisioning and Control HTTP, HTTPS, TELNET, TFTP, TR-069, secure and automated provisioning using AES encyption, syslog Security Media SRTP Control TLS/SIPS/HTTPS Management Syslog support, telnet, remote management using web browser Physical Universal Power Supply Input: 100-240VAC, 50-60Hz Output: 12V/0.5A Operational: 32° – 104°F or 0° – 40°C Environmental SES x 130 x 90 mm (H x W x D) Weight: 353.33g	Telephone Interfaces	Two (2) FXS ports
Factory Reset Button Voice, Fax, Modem Telephony Features Caller ID display or block, call waiting, flash, blind or attended transfer, forward, hold, do not disturb, 3-way conference Voice Codecs Jone G. J.11 with Annex I (PLC) and Annex II (WAD/CNG), G.723.1, G.729A/B, G.726, iLBC, OPUS, dynamic jitter buffer, advanced line echo cancellation Fax Over IP T.38 compliant Group 3 Fax Relay up to 14.4kpbs and auto-switch to G.711 for Fax Pass-through Short/Long Haul Ring Load 3 REN, up to 1km on 24AWG line Caller ID Belicore Type 1 & 2, ETSI, BT, NTT, and DTMF-based CID Disconnect Methods Busy Tone, Polarity Reversal/Wink, Loop Current Signaling Network Protocols TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP/RARP, ICMP, DNS, DHCP, NTP, TFTP, TELNET, STUN, SIP (REG.261), SIP over TCP/TLS, SRTP, TR-069 Qos Layer 2 (802.1Q VLAN, SIP/RTP 802.1p) and Layer 3 (ToS, Diffserv, MPLS) DTMF Method In-audio, REC2833 and/or SIP INFO Provisioning and Control HTTP, HTTPS, TELNET, TFTP, TR-069, secure and automated provisioning using AES encryption, syslog Security Media SRTP Control TLS/SIPS/HTTPS Management Syslog support, telnet, remote management using web browser Physical Universal Power Supply Input: 100-240VAC, 50-60Hz Output: 12V/O.5A Operational: 32° – 104°F or 0° – 40°C Storage: 14° – 140°F or -10° – 60°C Humidity: 10 – 90% Non-condensing 28.5 x 130 x 90 mm (H x W x D) Weight: 353.33g	Network Interfaces	Two (2) 10/100/1000Mbps RJ45 ports
Voice, Fax, Modem Telephony Features Caller ID display or block, call waiting, flash, blind or attended transfer, forward, hold, do not disturb, 3-way conference Voice Codecs G.711 with Annex I (PLC) and Annex II (VAD/CNG), G.723.1, G.729A/B, G.726, ILBC, OPUS, dynamic jitter buffer, advanced line echo cancellation Fax Over IP Tas Compliant Group 3 Fax Relay up to 14.4kpbs and auto-switch to G.711 for Fax Pass-through Short/Long Haul Ring Load 3 REN, up to 1km on 24AWG line Caller ID Bellcore Type 1 & 2, ETSI, BT, NTT, and DTMF-based CID Disconnect Methods Busy Tone, Polarity Reversal/Wink, Loop Current Signaling Network Protocols TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP/RARP, ICMP, DNS, DHCP, NTP, TETP, TELNET, STUN, SIP (REC3261), SIP over TCP/TLS, SRTP, TR-069 QoS Layer 2 (802.10 VLAN, SIP/RTP 802.1p) and Layer 3 (ToS, Diffserv, MPLS) DTMF Method In-audio, RFC2833 and/or SIP INFO Provisioning and Control HTTP, HTTPS, TELNET, TFTP, TR-069, secure and automated provisioning using AES encryption, syslog Security Media SRTP Control TLS/SIPS/HTTPS Management Syslog support, telnet, remote management using web browser Physical Universal Power Supply Operational: 32° – 104°F or 0° – 40°C Storage: 14° – 140°F or 0° – 40°C Humidity: 10 – 90% Non-condensing 28.5 x 130 x 90 mm (H x W x D) Weight: 353.33g	LED Indicators	POWER, LAN, WAN, PHONE1, PHONE2
Telephony Features Caller ID display or block, call waiting, flash, blind or attended transfer, forward, hold, do not disturb, 3-way conference Voice Codecs G-711 with Annex I (PLC) and Annex II (VAD/CNS), G.723.1, G.729A/B, G.726, i.B.C, OPUS, dynamic jitter buffer, advanced line echo cancellation Fax Over IP T.38 compliant Group 3 Fax Relay up to 14.4kpbs and auto-switch to G.711 for Fax Pass-through Short/Long Haul Ring Load 3 REN, up to 1km on 24AWG line Caller ID Bellcore Type 1 & 2, ETSI, BT, NTT, and DTMF-based CID Disconnect Methods Busy Tone, Polarity Reversal/Wink, Loop Current Signaling Network Protocols TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP/RARP, ICMP, DNS, DHCP, NTP, TETP, TELNET, STUN, SIP (RFC3261), SIP over TCP/TLS, STRP, TR-069 Qo5 Layer 2 (802.1Q VLAN, SIP/RTP 802.1p) and Layer 3 (ToS, Diffserv, MPLS) DTMF Method In-audio, RFC2833 and/or SIP INFO Provisioning and Control HTTP, HTTPS, TELNET, TFTP, TR-069, secure and automated provisioning using AES encryption, syslog Security Media SRTP Control TLS/SIPS/HTTPS Management Syslog support, telnet, remote management using web browser Physical Universal Power Supply Output: 100-240VAC, 50-60Hz Output: 1200-240VAC, 50-60Hz Dimension and Weight Weight: 353.33g	Factory Reset Button	Yes
Voice Codecs Voice Codecs G.711 with Annex II (PLC) and Annex II (VAD/CNG), G.723.1, G.729A/B, G.726, iLBC, OPUS, dynamic jitter buffer, advanced line echo cancellation Fax Over IP T.38 compliant Group 3 Fax Relay up to 14.4kpbs and auto-switch to G.711 for Fax Pass-through Short/Long Haul Ring Load 3 REN, up to 1km on 24AWG line Caller ID Bellcore Type 1 & 2, ETSI, BT, NTT, and DTMF-based CID Disconnect Methods Busy Tone, Polarity Reversal/Wink, Loop Current Signaling Network Protocols TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP/RARP, ICMP, DNS, DHCP, NTP, TFTP, TELNET, STUN, SIP (RFC3261), SIP over TCP/TLS, SRTP, TR-069 QOS Layer 2 (802.1Q VLAN, SIP/RTP 802.1p) and Layer 3 (ToS, Diffserv, MPLS) DTMF Method In-audio, RFC2833 and/or SIP INFO Provisioning and Control HTTP, HTTPS, TELNET, TFTP, TR-069, secure and automated provisioning using AES encryption, syslog Security Media SRTP Control TLS/SIPS/HTTPS Management Syslog support, telnet, remote management using web browser Physical Universal Power Supply Output: 12V/0.5A Operational: 32° – 104°F or 0° – 40°C Storage: 14° – 140°F or -10° – 60°C Humidity: 10 – 90% Non-condensing 28.5 x 130 x 90 mm (H x W x D) Dimension and Weight Weight: 353.33g	Voice, Fax, Modem	
Fax Over IP T.38 compliant Group 3 Fax Relay up to 14.4kpbs and auto-switch to G.711 for Fax Pass-through Short/Long Haul Ring Load 3 REN, up to 1km on 24AWG line Caller ID Bellcore Type 1 & 2, ETSI, BT, NTT, and DTMF-based CID Disconnect Methods Busy Tone, Polarity Reversal/Wink, Loop Current Signaling Network Protocols TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP/RARP, ICMP, DNS, DHCP, NTP, TFTP, TELNET, STUN, SIP (RFC3261), SIP over TCP/TLS, SRTP, TR-069 Qos Layer 2 (802.1Q VLAN, SIP/RTP 802.1p) and Layer 3 (ToS, Diffserv, MPLS) DTMF Method In-audio, RFC2833 and/or SIP INFO Provisioning and Control HTTP, HTTPS, TELNET, TFTP, TR-069, secure and automated provisioning using AES encryption, syslog Security Media SRTP Control TLS/SIPS/HTTPS Management Syslog support, telnet, remote management using web browser Physical Universal Power Supply Input: 100-240VAC, 50-60Hz Output: 12V/0.5A Operational: 32° – 104°F or 0° – 40°C Storage: 14° – 140°F or -10° – 60°C Humidity: 10 – 90% Non-condensing 28.5 x 130 x 90 mm (H x W x D) Weight: 353.33g	Telephony Features	
Short/Long Haul Ring Load 3 REN, up to 1km on 24AWG line Caller ID Bellcore Type 1 & 2, ETSI, BT, NTT, and DTMF-based CID Disconnect Methods Busy Tone, Polarity Reversal/Wink, Loop Current Signaling Network Protocols TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP/RARP, ICMP, DNS, DHCP, NTP, TFTP, TELNET, STUN, SIP (RFC3261), SIP over TCP/TLS, SRTP, TR-069 QoS Layer 2 (802.1Q VLAN, SIP/RTP 802.1p) and Layer 3 (ToS, Diffserv, MPLS) DTMF Method In-audio, RFC2833 and/or SIP INFO Provisioning and Control HTTP, HTTPS, TELNET, TFTP, TR-069, secure and automated provisioning using AES encryption, syslog Security Media SRTP Control TLS/SIPS/HTTPS Management Syslog support, telnet, remote management using web browser Physical Universal Power Supply Input: 100-240VAC, 50-60Hz Output: 12V/0.5A Environmental Operational: 32° – 104°F or 0° – 40°C Storage: 14° – 140°F or -10° – 60°C Humidity: 10 – 90% Non-condensing 28.5 x 130 x 90 mm (H x W x D) Weight: 353.33g	Voice Codecs	
Caller ID Bellcore Type 1 & 2, ETSI, BT, NTT, and DTMF-based CID Disconnect Methods Busy Tone, Polarity Reversal/Wink, Loop Current CP/IP/IUDP, RTP/RTCP, HTTP/HTTPS, ARP/RARP, ICMP, DNS, DHCP, NTP, TELNET, STUN, SIP (RFC3261), SIP over TCP/TLS, SRTP, TR-069 QoS Layer 2 (802.1Q VLAN, SIP/RTP 802.1p) and Layer 3 (ToS, Diffserv, MPLS) DTMF Method In-audio, RFC2833 and/or SIP INFO Provisioning and Control HTTP, HTTPS, TELNET, TFTP, TR-069, secure and automated provisioning using AES encryption, syslog Security Media SRTP Control TLS/SIPS/HTTPS Management Syslog support, telnet, remote management using web browser Physical Universal Power Supply Input: 100-240VAC, 50-60Hz Output: 12V/0.5A Operational: 32° – 104°F or 0° – 40°C Storage: 14° – 140°F or -10° – 60°C Humidity: 10 – 90% Non-condensing 28.5 x 130 x 90 mm (H x W x D) Weight: 353.33g	Fax Over IP	
Disconnect Methods Busy Tone, Polarity Reversal/Wink, Loop Current	Short/Long Haul Ring Load	3 REN, up to 1km on 24AWG line
Network Protocols TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP/RARP, ICMP, DNS, DHCP, NTP, TFTP, TELNET, STUN, SIP (RFC3261), SIP over TCP/TLS, SRTP, TR-069 QoS	Caller ID	Bellcore Type 1 & 2, ETSI, BT, NTT, and DTMF-based CID
Network Protocols TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP/RARP, ICMP, DNS, DHCP, NTP, TFTP, TELNET, STUN, SIP (RFC3261), SIP over TCP/TLS, SRTP, TR-069 Qos Layer 2 (802.1Q VLAN, SIP/RTP 802.1p) and Layer 3 (ToS, Diffserv, MPLS) DTMF Method In-audio, RFC2833 and/or SIP INFO Provisioning and Control HTTP, HTTPS, TELNET, TFTP, TR-069, secure and automated provisioning using AES encryption, syslog Security Media SRTP Control TLS/SIPS/HTTPS Management Syslog support, telnet, remote management using web browser Physical Universal Power Supply Output: 100-240VAC, 50-60Hz Output: 12V/0.5A Operational: 32° - 104°F or 0° - 40°C Storage: 14° - 140°F or -10° - 60°C Humidity: 10 - 90% Non-condensing 28.5 x 130 x 90 mm (H x W x D) Weight: 353.33g	Disconnect Methods	Busy Tone, Polarity Reversal/Wink, Loop Current
QoS Layer 2 (802.1Q VLAN, SIP/RTP 802.1p) and Layer 3 (ToS, Diffserv, MPLS) DTMF Method In-audio, RFC2833 and/or SIP INFO Provisioning and Control HTTP, HTTPS, TELNET, TFTP, TR-069 , secure and automated provisioning using AES encryption, syslog Security Media SRTP Control TLS/SIPS/HTTPS Management Syslog support, telnet, remote management using web browser Physical Universal Power Supply Input: 100-240VAC, 50-60Hz Output: 12V/0.5A Operational: 32° – 104°F or 0° – 40°C Storage: 14° – 140°F or -10° – 60°C Humidity: 10 – 90% Non-condensing 28.5 x 130 x 90 mm (H x W x D) Weight: 353.33g	Signaling	
Provisioning and Control HTTP, HTTPS, TELNET, TFTP, TR-069, secure and automated provisioning using AES encryption, syslog Security Media SRTP Control TLS/SIPS/HTTPS Management Syslog support, telnet, remote management using web browser Physical Universal Power Supply Input: 100-240VAC, 50-60Hz Output: 12V/0.5A Environmental Operational: 32° – 104°F or 0° – 40°C Storage: 14° – 140°F or -10° – 60°C Humidity: 10 – 90% Non-condensing Dimension and Weight 28.5 x 130 x 90 mm (H x W x D) Weight: 353.33g	Network Protocols	TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP/RARP, ICMP, DNS, DHCP, NTP, TFTP, TELNET, STUN, SIP (RFC3261), SIP over TCP/TLS, SRTP, TR-069
Provisioning and Control HTTP, HTTPS, TELNET, TFTP, TR-069, secure and automated provisioning using AES encryption, syslog Security Media SRTP Control TLS/SIPS/HTTPS Management Syslog support, telnet, remote management using web browser Physical Universal Power Supply Input: 100-240VAC, 50-60Hz Output: 12V/0.5A Environmental Operational: 32° – 104°F or 0° – 40°C Storage: 14° – 140°F or -10° – 60°C Humidity: 10 – 90% Non-condensing 28.5 x 130 x 90 mm (H x W x D) Weight: 353.33g	QoS	Layer 2 (802.1Q VLAN, SIP/RTP 802.1p) and Layer 3 (ToS, Diffserv, MPLS)
Security Media SRTP Control TLS/SIPS/HTTPS Management Syslog support, telnet, remote management using web browser Physical Universal Power Supply Input: 100-240VAC, 50-60Hz Output: 12V/0.5A Environmental Operational: 32° – 104°F or 0° – 40°C Storage: 14° – 140°F or -10° – 60°C Humidity: 10 – 90% Non-condensing 28.5 x 130 x 90 mm (H x W x D) Weight: 353.33g	DTMF Method	In-audio, RFC2833 and/or SIP INFO
Media SRTP Control TLS/SIPS/HTTPS Management Syslog support, telnet, remote management using web browser Physical Universal Power Supply Input: 100-240VAC, 50-60Hz Output: 12V/0.5A Environmental Operational: 32° – 104°F or 0° – 40°C Storage: 14° – 140°F or -10° – 60°C Humidity: 10 – 90% Non-condensing 28.5 x 130 x 90 mm (H x W x D) Weight: 353.33g	Provisioning and Control	
Control TLS/SIPS/HTTPS Management Syslog support, telnet, remote management using web browser Physical Universal Power Supply Input: 100-240VAC, 50-60Hz Output: 12V/0.5A Operational: 32° – 104°F or 0° – 40°C Storage: 14° – 140°F or -10° – 60°C Humidity: 10 – 90% Non-condensing 28.5 x 130 x 90 mm (H x W x D) Weight: 353.33g	Security	
Management Syslog support, telnet, remote management using web browser Physical Universal Power Supply Input: 100-240VAC, 50-60Hz Output: 12V/0.5A Physical Input: 100-240VAC, 50-60Hz Output: 12V/0.5A Operational: 32° – 104°F or 0° – 40°C Storage: 14° – 140°F or -10° – 60°C Humidity: 10 – 90% Non-condensing 28.5 x 130 x 90 mm (H x W x D) Weight: 353.33g	Media	SRTP
Physical Universal Power Supply Input: 100-240VAC, 50-60Hz Output: 12V/0.5A Operational: 32° – 104°F or 0° – 40°C Storage: 14° – 140°F or -10° – 60°C Humidity: 10 – 90% Non-condensing 28.5 x 130 x 90 mm (H x W x D) Weight: 353.33g	Control	TLS/SIPS/HTTPS
Universal Power Supply Input: 100-240VAC, 50-60Hz Output: 12V/0.5A Operational: 32° – 104°F or 0° – 40°C Storage: 14° – 140°F or -10° – 60°C Humidity: 10 – 90% Non-condensing 28.5 x 130 x 90 mm (H x W x D) Weight: 353.33g	Management	Syslog support, telnet, remote management using web browser
Output: 12V/0.5A Operational: 32° – 104°F or 0° – 40°C Storage: 14° – 140°F or -10° – 60°C Humidity: 10 – 90% Non-condensing 28.5 x 130 x 90 mm (H x W x D) Dimension and Weight Weight: 353.33g	Physical	
Environmental Storage: 14° – 140°F or -10° – 60°C Humidity: 10 – 90% Non-condensing 28.5 x 130 x 90 mm (H x W x D) Dimension and Weight Weight: 353.33g	Universal Power Supply	
Dimension and Weight Weight: 353.33g	Environmental	Storage: 14° – 140°F or -10° – 60°C
Compliance FCC/CE/RCM	Dimension and Weight	
	Compliance	FCC/CE/RCM





