

## GW0002 FXS Analog VoIP Gateway

### Overview

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• GW0002

GW0002 is a multi-functional analog gateway which offers seamless connectivity between IP-based telephony networks and legacy telephones (POTS), fax machines and PBX systems. The device provides 2 FXS port(s), fax over IP and a built-in high-speed NAT router. These powerful features and good voice quality make the device ideal for various application environments such as SOHO and small enterprises and for personal use. Moreover, with automatic provisioning and centralized management system, the device is easy for maintenance and deployment.

### Key Features

- Cost-effective ATA with 2 FXS port(s)
- Fax over IP (T.38 and Pass-Through)
- Support IPv4 and IPv6
- TR069 and SNMP
- Elastix and Broadsoft Certification
- Multiple codecs: G.711A/U, G.723.1, G.729A/B, G.726
- Fully compatible with leading IMS/NGN, SIP-based IP telephony system

## Physical Interfaces

- **Capacity**  
GW0002: 2\* FXS, RJ11
- **Ethernet Interfaces:**  
1\* WAN, 10/100Mbps, RJ-45  
1\* LAN, 10/100Mbps, RJ-45
- **Console**  
N/A

## Voice & FAX

- G.711A/U law, G.723.1, G.729A/B, G.726
- Silence Suppression
- Comfort Noise Generation(CNG)
- Voice Activity Detection(VAD)
- Echo Cancellation(G.168), with up to 128ms
- Adaptive (Dynamic) Jitter Buffer
- Hook Flash
- Programmable Gain Control
- T.38/Pass-through
- Modem/POS
- DTMF modes:  
SIP Info/RFC2833/Inband
- VLAN 802.1P/802.1Q
- Layer3 QoS and DiffServ

## FXS

- Connector: RJ11
- Dial Mode: DTMF and Pulse
- Pulse: 10 and 20 PPS
- Caller ID: DTMF/FSK CLI Presentation
- Max Cable Length: 3Km
- Reversed Polarity
- Programmable Call Progress Tone

## VoIP

- Protocol: SIP v2.0 (UDP/TCP), RFC3261  
SDP, RTP(RFC2833), RFC3262,  
3263, 3264, 3265, 3515, 2976, 3311
- RTP/RTCP, RFC2198, 1889
- SIP over TLS
- RFC4028 Session Timer
- RFC3266 IPv6 in SDP
- RFC2806 TEL URI
- RFC3581 NAT, rport
- Primary/Backup SIP Server
- Outbound Proxy
- DNS SRV/ A Query/NATPR Query
- SIP Trunk
- Early Media/Early Answer
- NAT:STUN, Static/Dynamic NAT

## Supplementary Service

- Call Waiting
- Blind Transfer
- Attend Transfer
- Call Forward on Busy
- Call Forward on No Reply
- Unconditional Call Forward
- Warm/Immediately Hotline
- Call Hold
- Do-not-disturb
- 3-Way Conference
- Message Waiting Indicator

## Software Features

- Hunting Group
- Web ACL
- Telnet ACL
- Action URL
- PPPoE/IPv4/IPv6
- Digitmap
- Bandwidth Optimization
- Routing Rules based Prefixes
- Caller/Called Number Manipulation

## Maintenance

- SNMP v1/v2/v3
- TR069
- Auto Provisioning
- Web/Telnet
- Configuration Backup/Restore
- Firmware Upgrade via Web
- CDR
- Syslog
- Ping/Tracert Test
- Network Capture
- Outward Test(GR909)
- NTP/Daylight Saving Time
- IVR local Maintenance
- Cloud-based Management

## Environmental

- Power Supply:  
100-240VAC, 50-60 Hz@DC12V 1A
- Power Consumption:<5W
- Operating Temperature:0 °C ~ 45 °C  
Storage Temperature: -20 °C ~80 °C
- Humidity:10%-90% Non-Condensing
- Dimensions(W/D/H): 126\*76\*25mm
- Unit Weight: <=0.2kg
- Compliance: UL

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