

# Analog VoIP Gateway

UBIQCOM FXO Gateway is a multi-functional analog gateway offering seamless connectivity between IP-based telephony networks and legacy telephones (POTS), and PBX systems. The device offers 2 or 4 FXO ports, which is ideally suited for small and medium businesses, call centers and multi-location environments that need VoIP services.

UBIQCOM FXO Gateway supports the standard SIP protocol and it's compatible with leading IMS/NGN platforms and SIP-based IP telephony systems.



## FXO VOIP Gateway

- Embedded Operation System
- Market-proven hardware design
- Carrier-grade reliability
- Main/Secondary SIP server failover
- TLS/SRTP Security

## Highlights

- Cost effective gateway with 2/4 FXO ports
- Fax over IP (T.38 and Pass-Through)
- TR069 and SNMP
- Multiple codecs: G.711A/U,G.723.1,G.729A/B etc.
- Flexible Call Routing and Number Manipulation
- Fully compatible with leading IMS/NGN, SIP based IP telephony system

## Physical Interfaces

- **Capacity:**
- UB40-20, 2 FXO, RJ11
- UB40-40, 4 FXO, RJ11

### Capacity:

- UB40-20:
  - 1\* WAN, 1\* LAN,10/100Mbps, RJ-45
- UB40-40:
  - 1\* WAN, 3\* LAN,10/100Mbps, RJ-45

### FXO

- Connector: RJ11
- FAS
- Caller ID: FSK, DTMF
- Polarity Reversal
- Answer Delay
- Busy Tone Detection
- No Current Detection
- Call Detection: Bellcore Type 1&2, ETSI, DTMF
- Dial Mode: DTMF/Pulse Dialing
- AC/DC Impedance Configuration

### Voice & FAX

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

## VoIP

- Protocol: SIP v2.0 (UDP/TCP),RFC3261
- SDP,RTP(RFC2833), RFC3262, RFC3263,
- RFC3264, RFC3265, RFC3515, RFC2976,
- RFC3311
- SIP Trunk
- SIP TLS/SRTP
- RFC3266 IPv6 in SDP
- RFC2806 TEL URI
- RFC3581 NAT, rport
- Outbound Proxy
- RFC4028 Session Timer
- RTP/RTCP, RFC2198, RFC1889
- DNS SRV/ A Query/NATPR Query
- Early Media/Early Answer
- NAT:STUN, Static/Dynamic NAT

## Maintenance

- CDR
- Syslog
- Web/Telnet
- SNMP v1/v2/v3
- TR069, TR181
- Auto Provisioning
- Network Capture
- Configuration Backup/Restore
- Firmware Upgrade via Web
- NTP/Daylight Saving Time
- IVR local Maintenance

## Network

- PPPoE
- DHCP Client
- OpenVPN
- Ping / Tracert
- Static / Dynamic IP
- DHCP Option 66,120,121
- IPv4, TCP, UDP,TFTP, FTP, ARP,RARP, Ping, NTP, SNTP, HTTP/HTTPS, DNS

## Environmental

- Power Supply: 100-240VAC, 50-60 Hz @
- External Adapter DC12V
- Power Consumption:
  - DAG1000-2O: 5W
  - DAG1000-4O: 12W
- Operating Temperature: 0 °C ~ 45 °C
- Storage Temperature: -20 °C ~80 °C
- Humidity: 10%-90% Non-Condensing
- Dimensions(L/W/H) and Weight:
- DAG1000-2O: 195\*135\*35mm, 0.6Kg
- DAG1000-4O: 242\*152\*40mm, 1kg
- Compliance: MTCTE

## Software Features

- Port Group
- Action URL
- Digitmap
- Speed Dial
- Web/Telnet ACL
- Routing Rules based Prefixes
- Caller/Called Number Manipulation