



# DAG3000-32S/O FXO Analog VoIP Gateway

## Overview

DAG3000-32S/O is a multi-functional analog gateway offering seamless connectivity between IP-based telephony networks and legacy telephones (POTS), fax machines and PBX systems. It adopts modularized hardware design that allows to expand FXS/FXO ports by adding boards according to user's requirements. Each board has 8 FXS/FXO ports, and the gateway supports 32 FXS/FXO ports at maximum.

### DAG3000-32S/O



DAG3000-32S/O supports the standard SIP protocol and it's compatible with leading IMS/NGN platforms and SIP-based IP telephony systems. Which is ideally suited for small and medium businesses, call centers and multi-location environments that need VoIP services.

## Key Features

- Cost effective gateway with 32 FXS/FXO ports
- Fax over IP (T.38 and Pass-Through)
- Support IPv4 and IPv6
- TR069 and SNMP
- Multiple codecs: G.711A/U,G.723.1,G.729A/B etc.
- Fully compatible with leading IMS/NGN, SIP based IP telephony system

## Physical Interfaces

### Capacity

Range from 8 to 32 FXO/FXS  
Support 4 user board slots

### User Board

2\* RJ45 connectors with 8 FXO  
2\* RJ45 connectors with 8 FXS

### MCU Board

1\*RS232, 115200bps  
2\*10/100/1000Mbps, RJ45

## Voice & FAX

G.711A/U law, G.723.1, G.729A/B, AMR,  
G.726, iLBC

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  
T.38/Pass-through

Modem/POS  
DTMF mode: Signal/RFC2833/INBAND  
VLAN 802.1P/802.1Q  
Layer3 QoS and DiffServ

## Network

Static/Dynamic IP,  
PPPoE  
DHCP Client  
IPv4/IPv6  
TCP, UDP,TFTP, FTP, ARP,RARP,  
Ping, NTP, SNTP, HTTP/HTTPS, DNS  
Ping / Tracert  
DHCP Option 66,120,121

## FXO

Connector: RJ45 with 4 FXO  
Dial Mode: DTMF/Pulse Dialing  
Caller ID: FSK, DTMF  
Polarity Reversal  
Answer Delay  
Busy Tone Detection  
No Current Detection

## FXS

Connector: RJ45 with 4 FXS  
Dial Mode: DTMF and Pulse  
Pulse: 10 and 20 PPS  
Caller ID: DTMF/FSK CLI Presentation  
Max Cable Length: 5KM  
Reversed Polarity  
Programmable Call Progress Tone

## Software Features

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

## Environmental

Power Supply: 100-240VAC, 50-60 Hz  
Power Consumption:20W(Typical)  
Operating Temperature:0 °C ~ 45 °C  
Storage Temperature: -20 °C ~80 °C  
Humidity:10%-90% Non-Condensing  
Dimensions(W/D/H): 437\*330\*44mm  
Unit Weight: 3.6kg

## VoIP

### Protocol:

SIP v2.0 (UDP/TCP),RFC3261  
SDP,RTP(RFC2833), RFC3262,  
3263,3264,3265,3515,2976,3311

### SIP TLS/SRTP

RTP/RTCP, RFC2198, 1889

RFC4028 Session Timer

RFC3266 IPv6 in SDP

RFC2806 TEL URI

RFC3581 NAT,rport

Outbound Proxy

DNS SRV/ A Query/NATPR Query

SIP Trunk

Early Media/Early Answer

NAT:STUN, Static/Dynamic NAT

## Maintenance

SNMP v1/v2/v3

TR069

Auto Provisioning

Web/Telnet

Configuration Backup/Restore

Firmware Upgrade via Web

CDR

Syslog

Network Capture

NTP/Daylight Saving Time

IVR local Maintenance

Cloud-based Management

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## About Us

Founded in 2011 in Shenzhen, DINSTAR is a leading global provider of IP Unified Communication products including VoIP Gateways, IP PBXs, IP Phones and SBCs, we have been delivering more agile, efficient and affordable communication solutions and unparalleled communication experiences to our customers with our reliable, innovative and future-proof products for years. Through our value-added distributors and resellers worldwide, now DINSTAR serves telecom operators, service providers, system integrators, enterprises, SMBs and OEM partners in over 100 countries.