

# DAG3000 Analog VoIP Gateway

## Overview

DAG3000 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 128 FXS/FXO ports at maximum.

**DAG3000-128S/O**



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

## Key Features

- High density gateway, up to 128 FXS/FXO
- Modularized design, easy to expand
- Support IPv4 and IPv6
- 5KM Maximum Cabling Length
- Multiple codecs: G.711A/U,G.723.1,G.729A/B, iLBC
- Fully compatible with leading IMS/NGN, SIP based IP telephony system

## Physical Interfaces

### Capacity

- Range from 8 to 128 FXS/FXO
- Support 16 user board slots

### User Board

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

### MCU Board

- 1\*RS232, 115200bps
- 2\*10/100/1000Mbps, RJ45
- 1\* USB 2.0

## Voice & FAX

G.711A/U law, G.723.1, G.729A/B, 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

Hook Flash

Programmable Gain Control

T.38/Pass-through

Modem/POS

DTMF mode: Signal/RFC2833/INBAND

VLAN 802.1P/802.1Q

Layer3 QoS and DiffServ

## Supplement 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

## 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

## 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

## Software Features

Hunting Group

Web ACL

Telnet ACL

Action URL

PPPoE/IPv4/IPv6

Digitmap

Bandwidth Optimization

Routing Rules based Prefixes

Caller/Called Number Manipulation

## Environmental

1+1 Power Supply: 100-240VAC, 50-60 Hz

Power Consumption:105W MAX

Operating Temperature:0 °C ~ 45 °C

Storage Temperature: -20 °C ~80 °C

Humidity:10%-90% Non-Condensing

Dimensions(W/D/H):

440\*300\*135mm(3U)

Unit Weight: 9.3kg

Compliance: CE, FCC

## VoIP

### Protocol:

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

SIP TLS

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

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

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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.