

# **DAG3000 FXS Analog VoIP Gateway**

# **Overview**

The DAG3000 Series FXS analog gateway is multi-functional voice gateway that provides seamless connectivity with analog phones, fax machine or analog PBXs to VoIP gateway. The overall frame of DAG3000 is compact and structured, supporting RJ21 interface standards and up to 312 FXS voice interfaces via user boards plugging at a size of 3U. In addition, DAG3000 provides high-performance hardware solution with good voice/fax processing capability. It is able to provide efficient and high-quality IP voice services for service provider, enterprises, community residents, and corporate telephone systems.

DAG3000 supports standard SIP and RTP protocols and is compatible with multiple well-known platforms, for example, compatible with BroadSoft. It also works as extensions with various IPPBX products based on Asterisk and FreeSWITCH, and is also perfectly compatible with IMS/NGN softswitch platforms and call center systems. In addition, customers can build an enterprise branch communication network by using the DAG3000 to achieve interoperability between branches, which can provide an efficient, stable, and cost-effective voice communication solution for large enterprises.



Front View



Rear View

# **Key Features**

- High density gateway, 24 to 312 FXS ports in 3U size via user boards plugging
- Support IPv4 and IPv6
- 5 km Line Length(MAX)
- Support SNMP and TR069
- Multiple codecs: G.711A/U,G.723.1,G.729A/B and iLBC
- Support Asterisk and FreeSWITCH platforms, and compatible with BroadSoft
- Fully compatible with leading IMS/NGN, SIP based IP telephony system

### **Physical Interfaces**

Hardware

1\*MCU Boards

13\*User Boards

FXS Boards

RJ21: One user board supports 24 FXS ports,
up to 13 user boards

MCU Board

Network Interfaces:

2\* 10/1000 Base-T

1\* 10/100 Base-T

Console: 1\* RS232, 115200bps

#### **Call Features**

Digit map

IMPU

CDR

Action URL

Voicemail

Custom IVR

Call Waiting

Call Holding

Do-not-disturbBlind Transfer

Attend Transfer

· Call Forward on Busy

Call Forward on No Reply

· Ringing Group, Hotline

3-way Conference

· Early Media/Early Answer

Abbreviated Dialing

Access and Peer Mode

SIP PnP Auto Provisioning

PBX IVR

Unconditional Call Forward

SIP registration to different servers

Flexible Call Routing Policy

Caller/Called Number Manipulation

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#### **Voice & FAX**

Recording

T.38/Pass-through

Modem/POS

Silence Suppression

Bandwidth Optimization

Comfort Noise Generation(CNG)

Voice Activity Detection(VAD)

· Packet Loss Concealment

· Adaptive (Dynamic) Jitter Buffer

Programmable Gain Control

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

DTMF mode: Signal/RFC2833/INBAND

 Echo Cancellation(G.168), with up to 128ms

#### Maintenance

Ping/Tracert Test

Network Capture

Outward Test(GR909)

SNMP, TR069, Provision

NTP/Daylight Saving Time

IVR local Maintenance

RADUIS Authentication Management

Cloud-based Management (NMS)

Syslog: Debug, Info, Error, Warning, Notice

Configuration Backup/Restore

 Firmware Upgrade via HTTP/HTTPS/TFTP/FTP/HTTP

### **Physical Features**

Power Supply: 100-240VAC, 50/60Hz

Dual power supplies

Operating Temperature: 0°C ~ 45°C

Storage Temperature: -20°C ~80°C

Humidity: 10%-90% Non-Condensing

Dimensions(W/D/H): 440\*360\*132mm(3U)

 Consumption (Idle/With full channel used): 150W/400W

• Unit Weight: 12 kg

Compliance: CE and FCC

#### **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.

#### **FXS**

Connector: RJ21

Max Line Length: 5 km

Reversed Polarity

Pulse: 10 and 20 PPS

· Dial Mode: DTMF and Pulse

Programmable Call Progress Tone

Caller ID: DTMF/FSK CLI Presentation

# Security

QoS, TLS, SRTP

Web ACL/SSH ACL

RADIUS Authentication

Certification Management

Service Network Port:
Isolated/BOND/Bridge Mode

Signaling/Voice Encryption

### VolP

#### Protocols:

SIP v2.0 (UDP/TCP), RFC3261

 SDP,RTP(RFC2833), RFC3262, RFC3263, RFC3264, RFC3265, RFC3515, RFC2976, RFC3311

RTP/RTCP, RFC2198, RFC1889

IPv4 and IPv6

Outbound Proxy

Master/Slave Server

RFC2806 TEL URI

RFC3581 NAT,rport

VLAN 802.1P/802.1Q

RFC4028 Session Timer

DNS SRV/A Query/NATPR Query

NAT:STUN, Static/Dynamic NAT