



# DAG2000-16S FXS Analog VoIP Gateway

## Overview

DAG2000-16S is a multi-functional analog gateway offering seamless connectivity between IP-based telephony networks and legacy telephones (POTS), fax machines and PBX systems. The device offers 16 FXS ports, fax over IP and flexible dial plans. It is ideally suited for small and medium businesses, call centers and multi-location environments that need VoIP services.

DAG2000-16S supports the standard SIP protocol and it's compatible with leading IMS/NGN platforms and SIP-based IP telephony systems.

## Pictures



## Key Features

- Cost effective gateway with 16 FXS 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,AMR,G.726 etc.
- Fully compatible with leading IMS/NGN, SIP based IP telephony system

## Physical Interfaces

### Capacity

16 FXS, RJ11  
1\*RJ21, 50 PIN

### Ethernet Interfaces:

3\* LAN, 10/100Mbps, RJ-45

### Console:

1\*RS232, 115200bps

## Voice & FAX

G.711A/U law, G.723.1, G.729A/B,  
G.726, AMR, 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  
High speed fax up to 14.4kbps  
Modem/POS  
DTMF mode: Signal/RFC2833/INBAND  
VLAN 802.1P/802.1Q  
(voice/data/management VLANs)  
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

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## FXS

Connector: RJ11&RJ21  
Dial Mode: DTMF and Pulse  
Pulse: 10 and 20 PPS  
Caller ID: DTMF/FSK CLI Presentation  
Max Cable Length: 5 km  
Reversed Polarity  
Programmable Call Progress Tone

## Software Features

Hunting Group  
Web ACL  
Telnet ACL  
Action URL  
PPPoE/IPv4/IPv6  
Digitmap  
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(Emerg,alert, critical,error  
warning,notice,info, debug)  
Ping/Tracert Test  
Network Capture  
Outward Test(GR909)  
NTP/Daylight Saving Time  
IVR local Maintenance  
Cloud-based Management

### 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.

## 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  
Primary/backup SIP server  
Outbound Proxy  
DNS SRV/ A Query/NATPR Query  
SIP Trunk  
Early Media/Early Answer  
NAT:STUN, Static/Dynamic NAT

## Environmental

Power Supply: 100-240VAC, 50-60 Hz  
Power Consumption:30W(Typical)  
Operating Temperature:0 °C ~ 45 °C  
Storage Temperature: -20 °C ~80 °C  
Humidity:10%-90% Non-Condensing  
Dimensions(W/D/H): 440\*230\*44mm  
Unit Weight: 2.7kg  
Compliance: CE, FCC