

# 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.



## 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
- Ethernet Interfaces:  
2\*GE, 10/100/1000Mbps, 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
- Speed Dial

## FXS

- Connector: RJ11
- 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
- OpenVPN
- Digitmap
- Routing Rules based Prefixes
- Caller/Called Number Manipulation

## Maintenance

- SNMP v1/v2/v3
- TR069, TR181
- 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

## VoIP

- Protocol:  
SIP v2.0 (UDP/TCP),RFC3261  
SDP(RFC2327),RTP(RFC2833), RFC3262,  
RFC3263, RFC3264, RFC3265, RFC3515,  
RFC2976, RFC3311, SIP TLS/SRTP
- RTP/RTCP, RFC2198, RFC1889
- 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
- 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

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**DINSTAR**

## 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.

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