

Feature List of DAG Series Analog Gateway

Specifications	DAG Series Analog Gateway
General Information	
Product Type	SIP&MGCP VOIP access gateway
Product Model	DAG1000(1FXS,2FXS,4FXS/FXO,8FXS/FXO), DAG2000(16FXS/FXO)
Box Type	Standard chassis
Market Target	Carrier and enterprise-class devices, both low-cost VoIP service while preserving the traditional PSTN network
Performance	Stable high-definition voice quality
Release Date	21/09/2011
Current Software Version	V20.02.01
Current Hardware Version	PCB 23.1
LEDs Indicator	
PWR	Indicating the status of system power
RUN	Indicating the running status of device
WAN	Indicating WAN port activity
LAN	Indicating PC&LAN port activity
FXS	Indicating the status of the respective FXS ports on the back
FXO	Indicating the status of the respective FXO ports-Phone0 to phone7 on the back
Link	Indicating the status of the network connection
Speed	Indicating network bandwidth, 10Mbps/100Mbps
Ethernet Interface	
Number of interface	2/4 * 10/100 BASE-TX (RJ-45)
Auto adapted	Supported
Automatic flip	Supported
FXS/FXO Interface	
Number of Interfaces	1/2/4/8/16 * FXS/4/8/16*FXO
Bell flow	RMS:45VAC, Sine wave , 25HZ
Servo voltage	Onhook: -48V
Servo current	Offhook: 20mA
Transmission distance	1km
Charging mode	Anti-polar signal
Impedance	600 Ω 900 Ω Japan (600 Ω + 1 μF) 900 Ω + 2.16 μF CTR21 270 Ω + (750 Ω 150 nF) Australia/New Zealand 220 Ω + (820 Ω 120 nF) Slovakia/Slovenia/South Africa 220 Ω + (820 Ω 115 nF) China 200 Ω + (680 Ω 100 nF)
Signals & Protocols	
MGCP Signaling (optional)	
Protocols compliant	MGCP V1.0, RFC2705
MGCP encryption	Supported
SIP Signaling	
Protocols compliant	SIP V1.0/2.0 and RFC3261
Authentication	Supported
SIP encryption	Supported
Voice & FAX	
G.723.1	Supported

G.729	Supported
G.168	Supported
PCMU	Supported
PCMA	Supported
DTMF mode	RFC2833, SIP INFO and INBAND
FAX over IP	T.38/ Pass-Through, baud rate:14.4kbps
Trunk Features	
Call forwarding	Supported
Call hold	Supported
DND	Supported
Caller ID	Time-Based service
PPPoE	Supported
Busy Tone	Supported
FXO calling card	Supported
FXO callback	Supported
PSTN & VoIP routing	Users can set up routing to go PSTN or IP
Gateway Power-down protection	When the gateway power failure, automatically switch to the PSTN line.
Network interruption recognition	When the network goes down, automatically switch to PSTN line
Network fault recognition	When the network failure, automatically switch to PSTN line
Network Features	
Network protocol	TCP/UDP, HTTP, ARP/RARP, DNS, NTP, TFTP, TELNET and STUN
Static IP	Supported
DNS	Supported
NAT	Up to 2000 sessions
VLAN	Supported
Qos	Tos / DSCP to ensure voice quality, data, management information transmission
DHCP Server	Supported
DHCP Client	Supported
Static Routing	Maximum 8
Security & Reliability	
Admin management	Administrator authentication by username and password
Maintenance & Upgrade	
Web configuration	Supported
Telnet configuration	Supported
Support languages	English and Chinese
Firmware upgrade	TFTP and Web
Compatibility	
Tested platforms	Work well with softswitch providers such as Huawei soft X3000, ZTE ZXSS10, Cisco, Alcatel, Lucent, S12.
Mechanical	
Dimension (W*D*H) (mm)	DAG1000(1FXS):100*68*24, DAG1000(2FXS):160*110*30 DAG1000(4FXS):195*133*35, DAG1000(4FXO/8FXS/8FXO):240*150*35 DAG2000(16FXS/FXO): 440*280*43
Net weight	DAG1000(1FXS):0.1kg, DAG1000(2FXS):0.25kg, DAG1000(4FXO/8FXS/8FXO):1kg, DAG2000(16FXS/16FXO):3.05kg
Powering	
Power input	DAG1000(1FXS):12VDC,1A, DAG1000(2FXS):12VDC,1A DAG1000(4FXS/4FXO): 12VDC,1A, DAG1000(8FXS/8FXO): 12VDC,2A DAG2000(16FXS/16FXO):110~240VAC,50~60HZ,0.4A MAX

Grounding	GND < 1Ω
Max power consumption	DAG1000(1FXS):6W, DAG1000(2FXS):8W, DAG1000(4FXS/4FXO):10W DAG1000(8FXS/8FXO):15W, DAG2000(16FXS/16FXO):30W
Availability-Redundancy	
Service life time	20 Years
Power-on time	1 min
Lightning protection	Telephone interface protection against lightning, 10/700/4000V
Environment-EMC	
Operational	32 ~ 104F / 0 ~ 40 °C
Storage	-4 ~ 176F / -20 ~ 80 °C
Humidity	10%~90%, no condensation
Fixed use of the environment	EN 300 019: Class 3.1
Storage environment	EN 300 019: Class 1.2
Transport Environment	EN 300 019: Class 2.3
Noice	EN 300 753: Work in data center
EMC	FCC Part 15 Class B; CE EMC directive 2004/108/EC: EN55022 : 2006+A1 : 2007 , EN61000-3-2 : 2006 EN61000-3-3 : 1995+A1 : 2001+A2 : 2005 , EN55024 : 1998+A1 : 2001+A2 : 2003
Safety	CE LVD EN60950-1 : 2006
Certifications	FCC and CE