



GENEW

IAD04 Analogy Gateway

Datasheet V1.0

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1. General Comments

IAD 04(4FXO or 4FXS) is a versatile IP-based voice and fax gateway, it is highly integrated router, NAT, DHCP server, phone gateway functionality. Market-leading voice quality, rich functionality, and lightweight, compact design. IAD 04 is fully compatible with SIP industry standard, can be achieved with many other SIP compliant devices and software interoperability. In addition, it supports including G.711A / U, G.723.1 and G.729AB voice codec.

Carrier and enterprise-class devices, both low-cost VoIP service while preserving the traditional PSTN network. Especially for new VoIP and traditional PSTN operators to seize market operators.

IAD 04 can be with the mainstream SIP proxy server(such as Asterisk, SIP registration server, etc.) to implement docking. In this kind of environment, SIP server processing SIP registration and call control, IAD 04 access gateway can realize flow media conversion between the IP and PSTN.

2. FEATURES AND BENEFITS

- **Full-features to meet customer's requirements:**

Supporting many applications such as call forwarding, caller ID, DND, busy tone and conference with IPPBX.

- **Flexible dial plan & Number manipulation**

You can customize the rules & numbering, according to different countries and regions, make it works well under different scenarios.

- **Service-orient Architecture, Rich Services Supported**

It provide various services, for example, call shop, calling card, call center, Fax over IP, etc. The service-orient architecture in line with the development evolution of telecom technology, satisfies the continuous expanding need in the future.

- **Easy Management & Maintenance**

IAD04 VoIP access gateway can be standalone managed, also can be central managed by SNMP/TR-069 based NMS.

- **Total protocols supporting**

IAD 04 VoIP access gateway support SIP, MGCP protocols. It also support T.38 FAX, it can handle FAX and Voice at the same time. Market has proved its adaptability to different application scenarios.

- **Rich ethernet features, router and bridge modes optional**

IAD 04 support router or bridge modes. It also supports rich features of NAT, DHCP Server/Client, DNS, PPPoE client and so on.

- **High Performance-price-ratio**

8 years mature hardware and software, large scale application, China R&D and manufacturing cost, make it cost-effective choice for customers all over the world.

- **Safety and Reliability**

Administrator authentication mechanism; intelligent multiple trunk routing technology, 9 years history, more than 5 millions lines delivered.



3. SPECIFICATIONS

Item	IAD04
PHYSICAL INTERFACES	
VoIP Interface	4* FXS or FXO ports
Network Interface	1WAN 1LAN,10/100M Base-T RJ-45
SIGNALLING & PROTOCOLS	
SIP	RFC3261 - Session Initiation Protocol
MGCP	MGCP V1.0, RFC3435
VOICE & FAX	
Voice over Packet Capabilities	G.168-2002 compliant Echo Cancellation, Voice Activity Detection(VAD), Comfort Noise Generation(CNG), Dynamic Jitter Buffer(DJB), Packet Loss Concealment(PLC).
Voice Codec	G.711 a-law/ μ -law, G.723.1, G.729A/B
DTMF Mode	RFC2833, SIP INFO, INBAND
FAX over IP	T.38. Up to 14.4 kbps
IP CONNECTIVITY	
IP Transport	TCP/UDP, ARP/RARP, NTP, TFTP, HTTP, TELNET, ICMP, STUN, NAT, DHCP client/server, PPPoE client, DNS, DNS SRV
Voice Transport	RTP/RTCP, Real-Time Transfer Protocol / Real-Time Transport Control Protocol
QoS	IP ToS & DSCP Diffserv Tagging, RFC2474
VLAN	VLAN Tagging(802.1 p/q) Voice/Data/Management VLANs
MANAGEMENT	
Firmware Update	TFTP, FTP, WEB
Configuration & Monitoring	Configuration & Monitoring via WEB, TELNET, BMS/NMS
Configuration backup & upload	Configuration update & backup via WEB browser
Central Managed	SNMP V1/V2, TR-069 & TR-104
Syslog Protocol	RFC5424. Syslog level: DEBUG, NOTICE, WARNING, ERROR
SERVICE CAPABILITIES	
Voice Routing	Number Manipulation, Dial Plan
IVR, CRBT	IVR (FXO only). Color Ring Back Tone Customizable
Standard Services	Caller ID, Call Transfer, Call Hold, Call Forward, Call Waiting, Change Caller ID, Three-way conference, Do-Not-Disturb(DND)
Supplementary Services	Calling Card, Call Shop, Call Center, Fax over IP, etc.
White List/Black List	White list and black list access control
Voice Routing	Number Manipulation, Dial Plan



PHYSICAL	
Power	Adapter Input:100-240VAC, 50-60Hz, Output:12V DC
Environmental	Operational: 32~104F / 0~40 °C Storage: -4~176F /-20~80 °C Humidity: 10%-90% non-condensing
REGULATORY COMPLIANCE	
Certification	CE, FCC
Safety and EMC	CE LVD EN60950-1: 2006 FCC part 15 Class B CE Mark (EN55022 Class B, EN60950, EN55024, EN300 386)
DIAGRAM	
IAD04-4S	1 WAN, 1 LAN, 4FXS ports, SIP V2.0 (RFC3261) or MGCP V1.0 (RFC3435)
IAD04-4O	1 WAN, 1 LAN, 4FXO ports, SIP V2.0 (RFC3261) or MGCP V1.0 (RFC3435)

