



- Support SIP and MGCP
- Support router and bridge modes
- Carrier-grade voice quality
- FXS/FXO multiple options
- High-performance-price ratio

EIA2000 series Access Gateway, from 1 port to 16 ports

EIA2000 series are carrier-grade voice and data integrated access gateways with high performance-price-ratio, it supports MGCP/SIP VoIP protocol and rich router features, such as, NAT, PPPoE Dialup, DHCP, DNS and so on. EIA2000 series support 1/2/4/8/16 ports, and it supports the mix of FXS and FXO too, for example, EIA2004 has three options of 4FXO, 4FXS, 2FXO2FXS, etc. Meanwhile, patented Smart Life Line technology is used to make the outbound-call controllable between PSTN and VoIP, it makes the transition from PSTN to VoIP smoothly, and highly increase the reliability. Now, EIA2000 series access gateway have been widely used by VOIP operators, Telco operators, enterprise groups, and end users.

FEATURES AND BENEFITS

• FXS, FXO and mix of FXS and FXO, different ports density, multiple options

EIA2000 series support 1/2/4/8/16 ports different models. FXS, FXO and mix of FXS and FXO, are all available. For example, EIA2004 has three models: 4*FXS, 4*FXO or 2*FXS-2*FXO, etc.

• Carrier-grade voice quality

EIA2000 series access gateway adopts carrier-grade design and implementation, the voice quality is nearly the same with PSTN voice quality.

• Support most of mainstream VoIP Protocol & Codec and VoIP services.

EIA2000 series access gateway support both MGCP and SIP protocol, support G.711, G.723.1, G.729A/B, PCMU, PCMA codec. It supports Call Transfer, Call Hold, Call Forward, Do-Not-Disturb(DND), Caller ID, Fax Over IP and 3-way conference (only EIA2002 and EIA2004). Market has proved its adaptability to different application scenarios.

• Patented Smart Life Line technology

User can set the outbound-call by PSTN or VoIP automatically/manually (for EIA2000 QC and QD series models only)

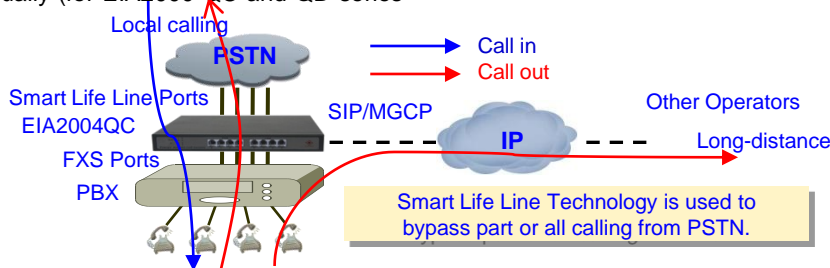


Figure 1. Illustration of Smart Life Line technology

TECHNICAL SPECIFICATIONS	
Physical Interfaces 1/2/4/8/16 * FXS/FXO ports 4 * 10/100M Base-T (EIA2001/4 only has 2 * 10/100M Base-T)	Smart Life Line (Intelligent PSTN pass through) <ul style="list-style-type: none"> • PSTN&VoIP routing: User can setup routing PSTN or VoIP automatically/manually (for EIA2000 QC and QD series models) • Gateway Power Off: Intelligent Judgment Mechanism: When gateway power off, calls will jump to PSTN automatically. (for EIA2000 QC series models) • Network Break/Bad Network: Intelligent Judgment Mechanism: When network is bad, calls will jump to PSTN automatically. (for EIA2000 QC and QD series models) • Outbound-call control -- (0-100)% local calls use VoIP line, (0-100)% Long-distance calls use VoIP line, other use still PSTN connection. (for EIA2000 QC series models) • EIA2000 QC models: EIA2001QC, EIA2004QC, EIA2008QC • EIA2000 QD models: EIA2004QD, EIA2008QD, EIA2016QD.
Signaling & Protocols SIP signaling <ul style="list-style-type: none"> • SIP V2.0, RFC3261 • Support User ID and Password Authentication • SIP Encryption support (Private protocols, only work with ALLYWLL its own IAD and IP phones, to avoid the SIP packet is captured and discarded) MGCP Signaling <ul style="list-style-type: none"> • MGCP V1.0, RFC2705 • MGCP Encryption support (Private protocols, only work with ALLYWLL its own IAD and IP phones, to avoid the MGCP packet is captured and discarded) Voice Codec <ul style="list-style-type: none"> • G.711, G.723.1, G.729ab, G.726-32 • Coding: A-law, μ-law • Auto codec negotiation • Enhanced (Carrier Grade) Echo Cancellation: ITU Rec. G 168, up to 128 msec tailsize FAX over IP <ul style="list-style-type: none"> • T.38. up to 14.4Kbps. Support 2.4, 4.8, 7.2, 9.6, 14.4 Kbps • Fax data pump, V.17, V.19, V.27ter, V.29 for T.38 	Security & Availability <ul style="list-style-type: none"> • Administrator authentication • Package Encryption (Private protocols, only work with ALLYWLL its own IAD and IP phones, to avoid the SIP packet is captured and discarded, optional). • Service life time: 20 years • MTBF: 20 years • MTTR: 5 mins • Calling Established time: <300ms • Power-on time: 1 mins • Service availability per line: 99.99%
Network Features <ul style="list-style-type: none"> • QoS: ToS/DSCP Set for voice, data and management traffic • PPPoE Dialup • NAT: max 2K sessions • DNS • DHCP Server, DHCP Client • Static IP • Static Route: up to 8 routes 	Compatibility <ul style="list-style-type: none"> • Fully compatible with mainstream vendors, such as HUAWEI softX3000, ZTE ZXSS10, Cisco, Alcatel-Lucent, etc. • Compatible with other standard SIP/MGCP server.
VoIP Features <ul style="list-style-type: none"> • Adaptive Voice Activity Detection (VAD) with Comfort Noise Generation (CNG) • Adaptive Jitter Buffer • Packet Loss Concealment • DTMF Signaling via RFC 2833 or SIP Info • SIP Supplementary Services • IVR/RADIUS server support for AAA with integrated multi-lingual IVR+ 	Configuration and Management <ul style="list-style-type: none"> • Software update online automatically. • Web, Telnet configuration • Support Language: English, Simplified Chinese • Firmware upgrading by TFTP/FTP • Configure file backup and upload • Configure file download • Central managed by M1000 (optional)
Standard Services <ul style="list-style-type: none"> • Call Transfer • Call Hold • Call Forward • Do-Not-Disturb(DND) • Caller ID • Fax Over IP (Bellcore Type 1 & 2, ETSI, BT, NTT, and DTMF-based CID, Caller ID display) 	Environment – EMC <ul style="list-style-type: none"> • Operational: 32~104F / 0~40°C • Storage environment: -4~176F / -20~80°C • Humidity, No condensation: 10~90% • Stationary use environment: EN 300 019: Class 3.1 • Storage environment: EN 300 019: Class 1.2 • Transportation environment: EN 300 019: Class 2.3 • Acoustic noise: EN 300 753 • 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, CE • Resistibility: K.20
Enhanced Services <ul style="list-style-type: none"> • <i>FreeLink</i>™ Technology (Allywll proprietary technology, which is using for hotbackup) • 3 way conference (EIA2002 and EIA2004 support) • ALLYWLL™ technology apply, anti-block. 	

Ordering Information

Model	Description
EIA2001QC	1 WAN, 1 LAN, PPPoE dial up, 1FXS port, 1 Smart Life Line (Intelligent PSTN pass through), MGCP V1.0 RFC2705, SIP V2.0 RFC3261, FAX over IP, web/telnet configure, provision server update
EIA2002QA	1 WAN, 3 LAN, PPPoE dial up, 2FXS ports, MGCP V1.0 RFC2705, SIP V2.0 RFC3261, FAX over IP, web/telnet configure, provision server update
EIA2002QB	1 WAN, 3 LAN, PPPoE dial up, 2FXO ports, MGCP V1.0 RFC2705, SIP V2.0 RFC3261, FAX over IP, web/telnet configure, provision server update
EIA2004QA	1 WAN, 1 LAN, PPPoE dial up, 4FXS ports, MGCP V1.0 RFC2705, SIP V2.0 RFC3261, FAX over IP, web/telnet configure, provision server update
EIA2004QB	1 WAN, 1 LAN, PPPoE dial up, 4FXO ports, MGCP V1.0 RFC2705, SIP V2.0 RFC3261, FAX over IP, web/telnet configure, provision server update
EIA2004QC	1 WAN, 3 LAN, PPPoE dial up, 4FXS ports, 4Smart Life Lines (Intelligent PSTN pass through), MGCP V1.0 RFC2705, SIP V2.0 RFC3261, FAX over IP, web/telnet configure, provision server update
EIA2004QD	1 WAN, 1 LAN, PPPoE dial up, 2FXO ports 2FXS ports, MGCP V1.0 RFC2705, SIP V2.0 RFC3261, FAX over IP, web/telnet configure, provision server update
EIA2008QA	1 WAN, 3 LAN, PPPoE dial up, 8FXS ports, MGCP V1.0 RFC2705, SIP V2.0 RFC3261, FAX over IP, web/telnet configure, provision server update
EIA2008QB	1 WAN, 3 LAN, PPPoE dial up, 8FXO ports, MGCP V1.0 RFC2705, SIP V2.0 RFC3261, FAX over IP, web/telnet configure, provision server update
EIA2008QC	1 WAN, 3 LAN, PPPoE dial up, 8FXO ports , 8Smart Life Lines (Intelligent PSTN pass through), MGCP V1.0 RFC2705, SIP V2.0 RFC3261, FAX over IP, web/telnet configure, provision server update
EIA2008QD	1 WAN, 3 LAN, PPPoE dial up, 4FXO ports 4FXS ports, MGCP V1.0 RFC2705, SIP V2.0 RFC3261, FAX over IP, web/telnet configure, provision server update
EIA2016QA	1 WAN, 3 LAN, PPPoE dial up, 16FXS ports, MGCP V1.0 RFC2705, SIP V2.0 RFC3261, FAX over IP, web/telnet configure, provision server update
EIA2016QB	1 WAN, 3 LAN, PPPoE dial up, 16FXO ports, MGCP V1.0 RFC2705, SIP V2.0 RFC3261, FAX over IP, web/telnet configure, provision server update
EIA2016QD	1 WAN, 3 LAN, PPPoE dial up, 8FXO ports, 8FXS ports, MGCP V1.0 RFC2705, SIP V2.0 RFC3261, FAX over IP, web/telnet configure, provision server update



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