



EIX7100 NGN softswitch

- Available with up to 10000 register ports
- Up to 1500 concurrence calls performance
- Powerful Multi-Routings management
- Both central and standalone remote management
- High Performance-price-ratio VoIP applications

EIX7100 NGN softswitch is a hardware-based carrier-grade softswitch system. Support MGCP/SIP/H.323 protocol. It derived various of voice and data services, complying with the trend of Internet development. It support registered 500-10000 ports, and can manage up to 1500 concurrence calls. Powerful call routing and scheduling functions, providing customers with the most economical routing and the best voice quality. EIX7100 is designed basing on service-oriented architecture, rich service functions are supported for VoIP business operation, such as Callback, Calling card, Call shop, Call center and so on, and more and more service functions are customizable for VoIP operator. EIX7100 NGN softswitch has been widely used by VoIP operators, Telco operators, and enterprise groups.

## FEATURES AND BENEFITS

- **Support large capacity management—up to 10000 register ports**

EIX7100 NGN softswitch support large capacity management, it can manage register ports from 500-10000, providing customer with Multi-Choice.

- **High Performance in Concurrent Processing Capacity**

EIX7100 NGN softswitch can manage up to 1500 concurrence calls, perfect fit for small and medium operators and enterprise groups.

- **Total Protocol Supporting**

EIX7100 NGN softswitch support MGCP/SIP/H.323 protocols. Market has proved its adaptability to different application scenarios.

- **Safety and Reliability**

Administrator authentication mechanism; intelligent multiple trunk routing technology, 1+1 power supply redundancy, 1+1 fan. 7 years history, more than 20 million lines delivered.

- **Easy Maintenance**

EIX7100 NGN softswitch support to manage standalone by telnet, web. It also supports to be central managed by ALLYWLL management system M1000, and central monitored by SNMP based NMS.

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

Provide various services function for operator, for example, callback, callshop, calling card, callcenter, Fax over IP, etc. The service-orient architecture is in line with the development evolution of telecom technology, satisfies the continuous expanding need in future.

- **High Performance-price-ratio**

7 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. And what's more, our platform and solution are in line with the development evolution of telecom technology.

TECHNICAL SPECIFICATIONS	
<p><b>Physical Interfaces</b></p> <ul style="list-style-type: none"> <li>2 10/100M Base-T</li> <li>1 RS232 console port</li> </ul> <p><b>Signaling &amp; Protocols</b></p> <p><b>SIP signaling</b></p> <ul style="list-style-type: none"> <li>• RFC3261 SIPv2.0</li> <li>• Support User ID and Password Authentication</li> <li>• Peer terminal IP authentication</li> </ul> <p><b>H.323 signaling</b></p> <ul style="list-style-type: none"> <li>• ITU-T H.323 V4</li> <li>• Incoming call number control</li> <li>• Outcoming call number control</li> </ul> <p><b>MGCP signaling</b></p> <ul style="list-style-type: none"> <li>• MGCP V1.0, RFC2705</li> </ul> <p><b>Voice Codec</b></p> <ul style="list-style-type: none"> <li>• G.711, G.723.1, G.729ab, G.726-32</li> <li>• Coding: A-law, <math>\mu</math>-law</li> <li>• Auto codec negotiation</li> <li>• Enhanced (Carrier Grade) Echo Cancellation:ITU Rec. G 168, up to 128 msec tailsize</li> </ul> <p><b>FAX over IP</b></p> <ul style="list-style-type: none"> <li>• Using industry standard T.38. up to 14.4kbps. Support 2.4, 4.8, 7.2, 9.6, 14.4 Kbps</li> <li>• Fax data pump, V.17, V.19, V.27ter, V.29 for T.38</li> </ul> <p><b>Network Features</b></p> <ul style="list-style-type: none"> <li>• <i>FreeGo</i><sup>™</sup> - Penetrate NAT/Firewall</li> <li>• Up to 1500 concurrence VoIP calls</li> <li>• Support TCP/UDP, RTP/RTCP, HTTP, ARP/RARP, DNS, NTP, TFTP, TELNET, PPPoE, STUN</li> <li>• Static IP Configure.</li> <li>• PPPoE Dialup</li> </ul> <p><b>VoIP Features</b></p> <ul style="list-style-type: none"> <li>• Adaptive Voice Activity Detection (VAD) with Comfort Noise Generation (CNG)</li> <li>• Adaptive Jitter Buffer</li> <li>• Packet Loss Concealment</li> <li>• DTMF Signaling via RFC2833/SIGNAL/INBAND</li> <li>• SIP Supplementary Services</li> <li>• IVR/RADIUS server support for AAA with integrated multi-lingual IVR+</li> </ul> <p><b>Mechanical</b></p> <ul style="list-style-type: none"> <li>• Dimensions (W x D x H): 435 x 500 x 44.5mm ( 1U )</li> <li>• Package Size(W*D*H) (mm): 765 x 640 x 160mm</li> <li>• Net weight: 6.2Kg</li> <li>• Gross Weight: 6.8Kg</li> <li>• 19" rack compliant, Horizontal mounting, rear cabling</li> </ul>	<p><b>Security &amp; Availability</b></p> <ul style="list-style-type: none"> <li>• Administrator authentication</li> <li>• Package Encryption (Private protocols, only work with ALLYWLL its own IAD and IP phones, to avoid the SIP packet is captured and discarded).</li> <li>• 1+1 dual power adapter—built in dual powers, support 1+1 swap (need to switch manually)</li> <li>• Fans redundancy —1+1 hot swap.</li> <li>• White List</li> <li>• Service life time: 20 years</li> <li>• MTBF: 20 years</li> <li>• MTTR: 5 mins</li> <li>• Calling Established time: &lt;300ms</li> <li>• Power-on time: 1 mins</li> <li>• Service availability per line: 99.99%</li> </ul> <p><b>Compatibility</b></p> <ul style="list-style-type: none"> <li>• Fully compatible with mainstream vendors, such as HUAWEI softX3000, ZTE ZXSS10, Cisco, Alcatel-Lucent, S12 etc.</li> <li>• Compatible with other standard SIP, MGCP and H.323 devices,</li> </ul> <p><b>Configuration and Management</b></p> <ul style="list-style-type: none"> <li>• Software update online automatically.</li> <li>• Web, Telnet configuration</li> <li>• SNMP V2 Agent</li> <li>• Support Language: English, Simplified Chinese</li> <li>• Firmware upgrading by TFTP/FTP</li> <li>• Configure file backup and upload</li> <li>• Configure file download</li> <li>• Monitoring: Running State, Alarm monitoring, Call monitoring, CDR monitoring</li> <li>• Central managed by M1000 - optional</li> </ul> <p><b>Environment - EMC</b></p> <ul style="list-style-type: none"> <li>• Operational: 32~104F / 0~40°C</li> <li>• Storage environment: -4~176F /-20~80°C</li> <li>• Humidity, No condensation: 10~90%</li> <li>• Stationary use environment: EN 300 019: Class 3.1</li> <li>• Storage environment: EN 300 019: Class 1.2</li> <li>• Transportation environment: EN 300 019: Class 2.3</li> <li>• Acoustic noise: EN 300 753</li> <li>• FCC Part 15 Class B</li> <li>• CE EMC directive 2004/108/EC</li> <li>• EN55022: 2006+A1:2007</li> <li>• EN61000-3-2: 2006,</li> <li>• EN61000-3-3: 1995+A1: 2001+A2: 2005</li> <li>• EN55024: 1998+A1: 2001+A2: 2003</li> <li>• Safety: CE LVD EN60950-1: 2006</li> <li>• Certifications: FCC, CE</li> <li>• Resistibility: K.20</li> </ul>
STANDARD SERVICES	
<ul style="list-style-type: none"> <li>• Call Forwarding</li> <li>• Call Transfer</li> <li>• Call Waiting</li> <li>• Call Hold</li> <li>• Call Pickup</li> </ul>	<ul style="list-style-type: none"> <li>• Do-Not-Disturb (DND)</li> <li>• Alarm Clock</li> <li>• Domestic Direct Dial (DDD)</li> <li>• International Direct Dialing (DID)</li> <li>• Call ID (CID)</li> </ul>

## STANDARD SERVICES

- FAX over IP—T.38 protocol
- Call In Black List
- Queue
- District Route Selection
- Powerful Call routing management—price optimum rule and high voice quality rule.
- Color Ring Back Tone (CRBT)
- Call Detail Record (CDR)
- Caller ID change
- PC-PC—Support PC-PC apply
- PC-Phone —Support PC-Phone apply
- Phone-Phone—Support Phone-Phone apply
- Auto-added Prefix & Speed Dialing.
- FXO Calling card Service
- Package encryption
- *FreeGo*<sup>TM</sup>—Penetrate NAT/Firewall
- Status of subscribers
- P2P transportation

## ENHANCED SERVICES

### Virtual PBX Service

- FXS PBX Group—Maximum 254 groups, no user limite for a group.
- FXO Trunking Group—Efficient use the resources of the FXO group resources.
- Hotline—Automatic dial the designated number when off-hook or five seconds later. Number and time can be change.
- Extension rolling response—Support all, sequential, random three modes
- Secretary service—Income calling can be answered by group members using any key answer or dial short number answer.
- Multi level Interactive Voice Response (IVR)
- FXO white list—Resources can not be occupied without permission.

### Call Center Service

- Call Center service—Rapid establish a small and medium-sized call center with little cost.
- Contain traditional call center features, such as call transfer, call forward, Call Waiting, Call Hold, Call Pickup, etc.
- Support phone to phone, PC to phone, PC to EIA.
- Call Center seats and features can be the global distribution
- WEB call center—A simple Web Call Center, which can promote the value of enterprise portal.
- WEB call center support phone to phone, PC to phone, PC to EIA.

### One Number Service

- One Number Service ( Long number can be bind with different number, such as mobile, PSTN, etc.)

### Monitoring Service

- System Performance Monitoring
- Subscribers Status Monitoring
- Calling Status Monitoring
- System Alarm
- System Protection Mechanism

### Call Back Service

- Callback Access Number Set
- Auto Answer and second dial-up for setup callback connection
- Callback billing set
- Calling card for callback
- Prompt voice set
- Callback users group set
- Call ID display set—Access number or original number

### Calling Card Service

- Calling card—Prepay/Postpay call service.

### Call Shop Service

- Call Shop service
- Call Shop operating platform, contain management and billing.

### Software Phone Service

- Support software phone service
- Software phone operating platform, contain management and billing function.

### Routing Service

- Support setting outcoming routing flexible.
- Support outcoming routing backup.
- Support outcoming reattempt.
- *FreeGo*<sup>TM</sup> intelligent routing choice technology—price optimum rule and high voice quality rule.

### Optional Service

- Packet Encryption ( Private protocols, only work with ALLYWLL its own IAD and IP phones, to avoid the SIP/MGCP packet is captured and discarded ).
- *FreeLink*<sup>TM</sup> Technology ( Allywll proprietary technology, which is using for hotbackup )
- Anti-Block ( ALLYWLL<sup>TM</sup> proprietary technology apply, anti-block )

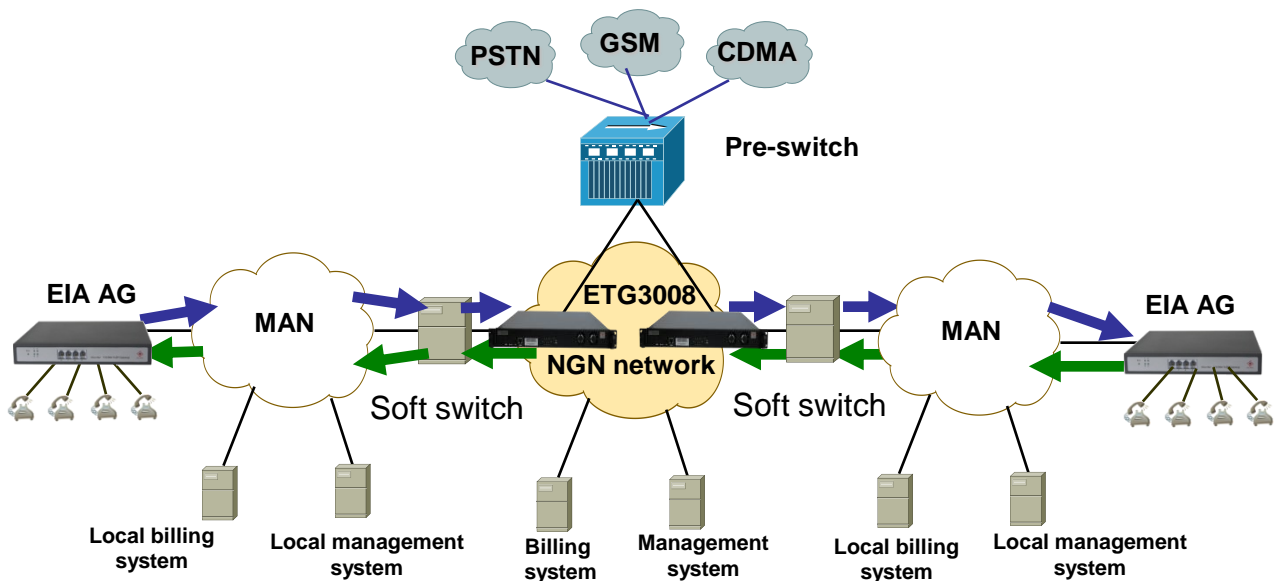
## Ordering Information

Model	Description
EIX7100	Hardware-based carrier-grade softswitch system. Support MGCP/SIP/H.323 protocol. Concurrence: from 500 to 2000 subscribers. Registered ports: from 500 to 10000. Routing numbers: from 2 to 10. Suitable for Operator and Enterprise.

## Case Study – China Unicom NGN Network

In south of China, China Unicom is much smaller than China Telecom at the first beginning. But China Unicom has license for voice business, NGN network, metropolitan area network, telephone number resources, in order to occupy the market quickly, China Unicom choose ALLYWLL as strategic partner to supply cost-effective and mature VoIP access total solution.

The topology of the network is showed as the following picture. Large number of EIX7100, trunk gateway ETG3008 and Access gateway EIA are deployed.



**Headquarter**  
- ALLYWLL Info&Tech Co., Ltd.

F/4 of Novophalt(LuAnTe) Building, Langshan Road No.2, North of  
High-Tech Industrial Park, Nanshan District, Shenzhen, China.  
518057

[www.allywll.com](http://www.allywll.com)

Tel: +86-755-61248800

Fax: +86-755-86026719

E-mail: [marketing@allywll.com](mailto:marketing@allywll.com)