



Company website



Wechat QR code



# LV Switches INC › IAD100 series › › Unified Voice Gateway ››

# Company introduction >

Headquartered in Foshan, Guangdong, China, LVswitches Inc. is a leading manufacturer for unified communication products and solution provider. With doctors who obtained their academic achievement in America, profound technology capability and thorough familiarity with the telecom sector, Lvswitches has had its different research and understanding in IP unified communication and mobile internet.

With products series in: unified communication platform, IP PBX, IAD gateway, IP phone and IMS, Lvswitches provides business, schools, hospitals, etc. with unified communication solution and application.



Lvswitches has patents in core technologies and software copyrights in unified communication, and is also the international certificate holder of ISO 9001:2015, FCC, CE, RoHS, etc. With its own factory, Lvswitches has research institutes and distribution offices in Guangdong, Jiangsu and Ji nan provinces as well as a research and development center in **New Jersey, America**. With endeavour in the long run, Lvswitches has established steady and sustainable relationship with its global clients, products and services extending to countries and regions in the world. With technology as the core, insistence in innovation and service, win-win relationship with clients and business partners, Lvswitches is committed to a global forerunner brand in unified communication.

# Full view of integrated voice gateway

**IAD100-4FXS**

**IAD100-8FXS**

**IAD100-16FXS**

**IAD100-32FXS**

**IAD100-128FXS**

**IAD100-256FXS**

**IAD100-8FXO**

**IAD100-4E1**

**IAD100-8E1**

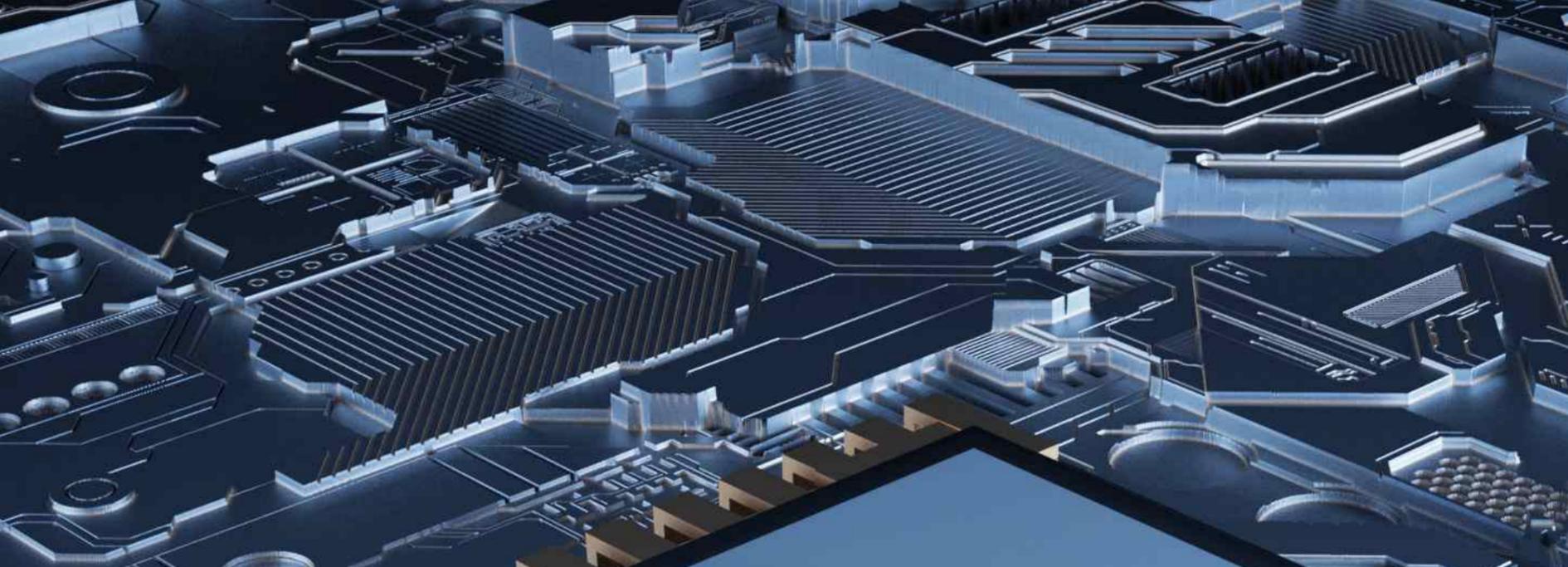
**30** Years  
Industry experience

**100+**  
R & D personnel

**130+**  
National application deployment



Parameters	Ports (Range)	Interface type	Concurrent calls	Network interface	Chassis (metal material)	Dimension (WidthxDepthxHeight)	Power	Weight	Power input	work environment	Temperature Reliability		
<b>IAD100-4FXS</b>	4-FXS	RJ 11	Full concurrency	4 gigabit network ports	1U	200x170x43.5 (mm)	15W	≤1 K G	DC 12V 1.5A	10°C to 35°C in operation, -40°C to +55°C in non-operation environment;	7X24 hours, the success rate is greater than 99.999%, and the MTBF is greater than 80,000 hours		
<b>IAD100-8FXS</b>	8-FXS	RJ 11			1U	320x200x43.5 (mm)	20W	≤1.5KG					
<b>IAD100-16FXS</b>	16-FXS	RJ 11			1U	440x210x43.5 (mm)	25W	≤ 2 K G					
<b>IAD100-32FXS</b>	32-FXS	RJ 11			1U	440x224x43.5 (mm)	45W	≤ 2.2KG					
<b>IAD100-128FXS</b>	32~128-FXS	RJ 45		3 gigabit network ports	≤ 1.5U	443x356x64 (mm)	150W	≤ 8 K G				100VAC-240VAC; 50/60Hz	
<b>IAD100-256FXS</b>	32~256-FXS	RJ 45			≤ 2.5U	443x356x108 (mm)	200W	≤ 11KG					
<b>IAD100-8FXO</b>	8-FXO	RJ 11		4 gigabit network ports	1U	350x180x43.5 (mm)	25W	≤1.5KG					95% during non-operation, non-condensing at 25°C to 30°C.
<b>IAD100-4E1</b>	4-E1/T1	RJ 45		3 gigabit network ports	≤ 1.5U	443x356x64 (mm)	150W	≤ 7 K G					
<b>IAD100-8E1</b>	8-E1/T1	RJ 45			≤ 4.5U	443x420x188 (mm)	300W	≤ 15KG					



E1/T1 Digital trunk



FXO Analog exterior line

IMS/NGN platform

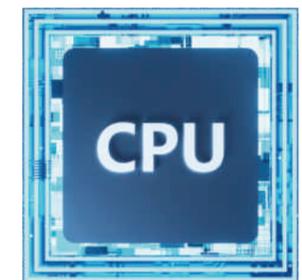
FXS Analog internal line

SIP trunk

**Multiple interface types design, strong compatibility**



Tailored for audio and video products.



Intel Marvel Brand custom chip



The amount of concurrency can be fully concurrent / no blocking of calls.



Using CORTEX-A9 processor



Dual-core four-thread design, single-core frequency reaches 1.2GHZ.

**Top level of CPU, Industrial level configuration**



# Hardware Configuration ! Full of the king's demeanor

IAD series work as integrated access gateways for enterprise communication. The tailor-made CPU for audio and video products, the FXS is able to be configured with transmission of 10km distance, the FXO, automatically compatible with caller ID standards such as DTMF/FSK, etc, and the E1 port can work with signaling such as PRI/SS1/SS7/Q SIG/V5, contribute to free switching of various signaling without hardware replacement. With innovation, high reliability, leading technology design and convenient feasibility are well integrated.



QOS with both hardware and software, adopting advanced and cutting-edge technology, under the extremely poor network, priority is given to guaranteeing the voice quality.



### Distributed architecture design

Ensure the system is stable and reliable.



## LINUX

### Using LINUX system

With AI intelligent algorithm.

A System

B System

### Dual systems

A and B systems automatically switch to ensure normal operation of the system .

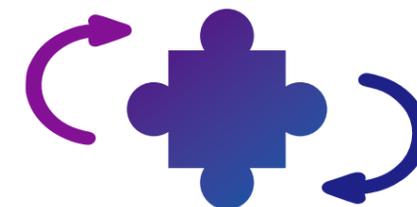


### Built-in router Function

PPPoE/Broadband Assignment/  
IP Address Black and White List

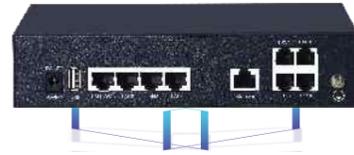
## Within the software! Demonstrate super strength

IAD series serve as integrated access gateways for enterprise communication. Dual system design **and the** LINUX system **as** software core **assures** uninterrupted operation; The set in SBC, 360 safe protection always make communication expense accurate; the distributed structure design, artificial intelligence algorithm work out the difficulty under the circumstances of complicated network; With QoS function of the software and hardware make voice smoothness a priority. All contribute to your IP communication experience of first-class, access of cutting-edge technologies, and ultimately change the way we communicate.



### Compatible with PRI/R2/SS7/QSIG/V5 multiple signaling

No need to replace hardware,  
automatically switch various signaling



# IAD100-4FXS

## Characteristics

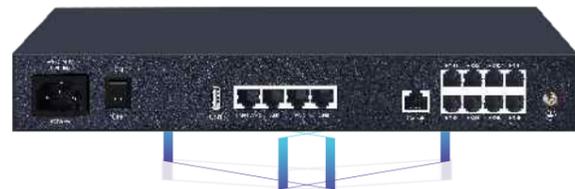
- CORTEX-A9 dual-core CPU processor;
- FXS analog internal line 4 channels (RJ11);
- All conversations are concurrent;
- Software and hardware QOS guarantee;
- Support based on SIP protocol and its call control process;
- Support TR-069 and SNMP management protocol;
- This device is suitable for IP PBX, IMS/NGN, call center, soft switch and other platforms to expand the analog internal line;
- The IAD 100-4FXS gateway converts the IP line to the analog internal line, and realizes the inter analog call in the IP network.
- Docking mode: upstream through SIP protocol to register to IP PBX/IMS and other platforms, downstream through gateway FXS port to connect to the analog phone
- IP address acquisition mode: static IP, DHCP, PPPoE;
- 4\*10/100/1000Mbps adaptive Gigabit Ethernet interfaces (RJ45);
- Local WEB, remote OMC near-end and remote maintenance management mode;
- 7 x 24 Hours reliable operation, MTBF is greater than 800,000 hours;
- Firewall mechanism, ACL access control, ARP anti-attack, DDoS protection;
- Support G.711A, G.711U, G.729, G.723 voice codec;



# IAD100-16FXS

## Characteristics

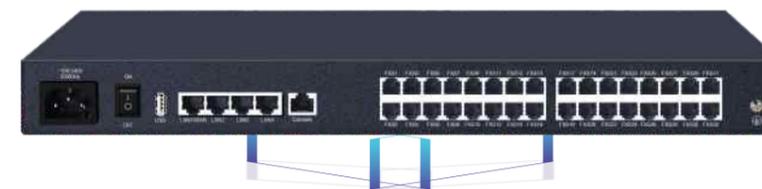
- CORTEX-A9 dual-core CPU processor;
- FXS analog internal line 16 channels (RJ11);
- All conversations are concurrent;
- Software and hardware QOS guarantee;
- Support based on SIP protocol and its call control process;
- Support TR-069 and SNMP management protocol;
- This device is suitable for IP PBX, IMS/NGN, call center, soft switch and other platforms to expand the analog internal line;
- The IAD 100-16FXS gateway converts the IP line to the analog internal line, and realizes the inter analog call in the IP network.
- Docking mode: upstream through SIP protocol to register to IP PBX/IMS and other platforms, downstream through gateway FXS port to connect to the analog phone
- IP address acquisition mode: static IP, DHCP, PPPoE;
- 4\*10/100/1000Mbps adaptive Gigabit Ethernet interfaces (RJ45);
- Local WEB, remote OMC near-end and remote maintenance management mode;
- 7 x 24 Hours reliable operation, MTBF is greater than 800,000 hours;
- Firewall mechanism, ACL access control, ARP anti-attack, DDoS protection;
- Support G.711A, G.711U, G.729, G.723 voice codec;



# IAD100-8FXS

## Characteristics

- CORTEX-A9 dual-core CPU processor;
- FXS analog internal line 8 channels (RJ11);
- All conversations are concurrent;
- Software and hardware QOS guarantee;
- Support based on SIP protocol and its call control process;
- Support TR-069 and SNMP management protocol;
- This device is suitable for IP PBX, IMS/NGN, call center, soft switch and other platforms to expand the analog internal line;
- The IAD 100-8FXS gateway converts the IP line to the analog internal line, and realizes the inter analog call in the IP network.
- Docking mode: upstream through SIP protocol to register to IP PBX/IMS and other platforms, downstream through gateway FXS port to connect to the analog phone
- IP address acquisition mode: static IP, DHCP, PPPoE;
- 4\*10/100/1000Mbps adaptive Gigabit Ethernet interfaces (RJ45);
- Local WEB, remote OMC near-end and remote maintenance management mode;
- 7 x 24 Hours reliable operation, MTBF is greater than 800,000 hours;
- Firewall mechanism, ACL access control, ARP anti-attack, DDoS protection;
- Support G.711A, G.711U, G.729, G.723 voice codec;

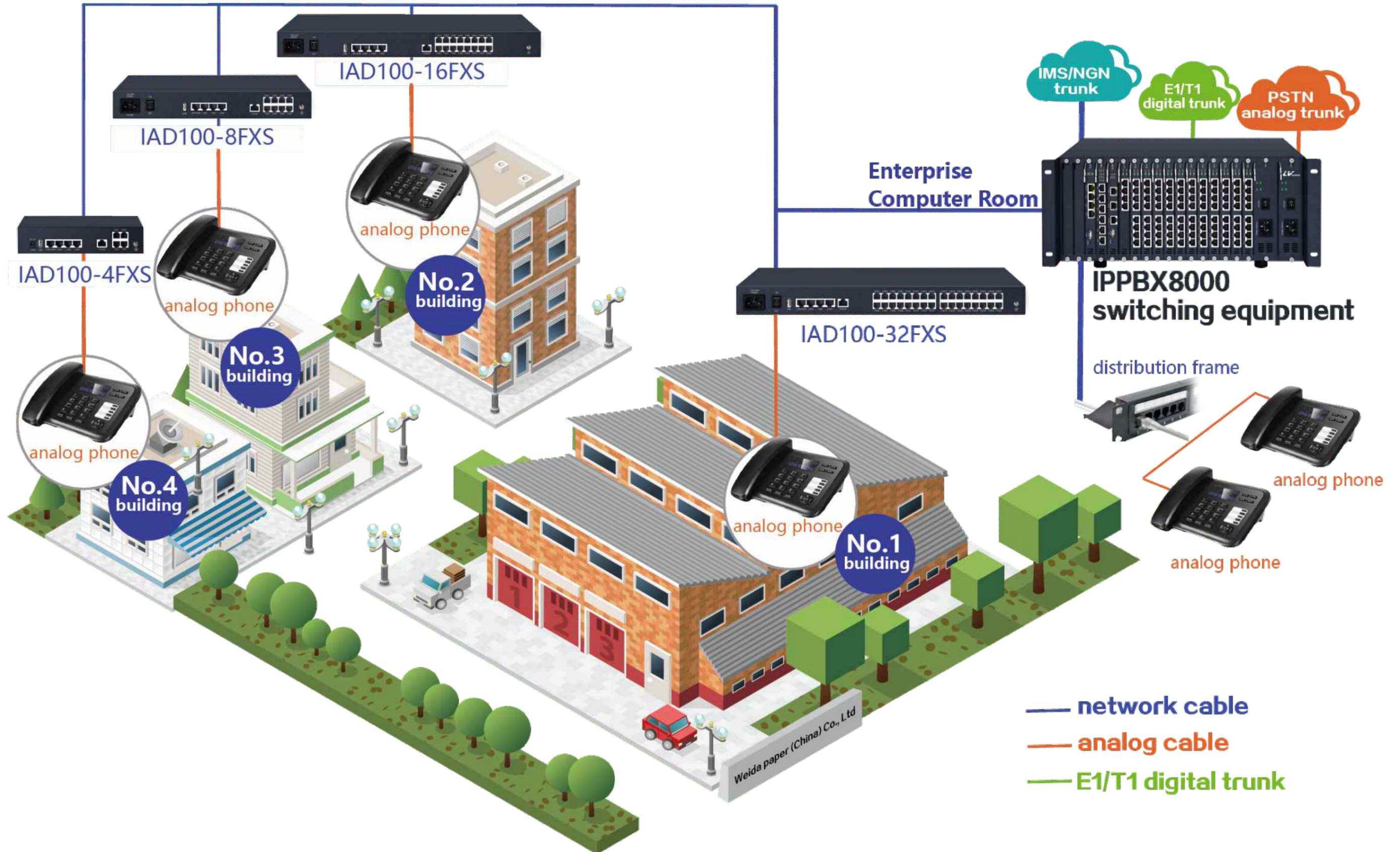


# IAD100-32FXS

## Characteristics

- CORTEX-A9 dual-core CPU processor;
- FXS analog internal line 32channels (RJ11);
- All conversations are concurrent;
- Software and hardware QOS guarantee;
- Support based on SIP protocol and its call control process;
- Support TR-069 and SNMP management protocol;
- This device is suitable for IP PBX, IMS/NGN, call center, soft switch and other platforms to expand the analog internal line;
- The IAD 100-32FXS gateway converts the IP line to the analog internal line, and realizes the inter analog call in the IP network.
- Docking mode: upstream through SIP protocol to register to IP PBX/IMS and other platforms, downstream through gateway FXS port to connect to the analog phone
- IP address acquisition mode: static IP, DHCP, PPPoE;
- 4\*10/100/1000Mbps adaptive Gigabit Ethernet interfaces (RJ45);
- Local WEB, remote OMC near-end and remote maintenance management mode;
- 7 x 24 Hours reliable operation, MTBF is greater than 800,000 hours;
- Firewall mechanism, ACL access control, ARP anti-attack, DDoS protection;
- Support G.711A, G.711U, G.729, G.723 voice codec;

# Enterprise Voice Resolution Plan





# IAD100-128FXS

## Characteristics

- CORTEX-A9 dual-core C P U processor;
- FXS analog internal line 128 channels (R J 45);
- All conversations are concurrent;
- Software and hardware QOS guarantee;
- Support based on SIP protocol and its call control process;
- Support TR-069 and SNMP management protocol;
- IP address acquisition mode: static IP, DHCP, PPPoE;
- 3\*10/100/1000Mbps adaptive Gigabit Ethernet interfaces (RJ45);
- 7 x24 Hours reliable operation , MTBF is greater than 800,000 hours;
- Local WEB, remote OMC near-end and remote maintenance management mode;
- Firewall mechanism, ACL access control, ARP anti-attack, DDoS protection;
- Support G.711A, G.711U, G.729, G.723 voice codec;
- This device is suitable for IPPBX, IMS /NGN, call center, soft switch and other platforms to expand the analog internal line;
- The IAD 100-128FXS gateway converts the I P line to the analog internal line, and realizes the inter analog call in the IP network.
- Docking mode: upstream through SIP protocol to register to IPPBX/IMS and other platforms, downstream through gateway FXS port to connect to the analog phone



# IAD100-4E1

## Characteristics

- CORTEX-A9 dual-core C P U processor;
- The maximum 4-way E1 / T1 trunk permit (R J 4 5);
- All conversations are concurrent;
- With router function;
- Software and hardware QOS guarantee;
- Call routing processing: call out routing based on different trunks, support routing backup;
- Security features: support control and management of permissions by roles; support basic firewall functions, firewall black and white lists;
- Management features: provide WEB management interface, support TR069 and SNMP management protocols; provide system tools, alarm management, log management;
- Narrowband signaling intercommunication : IAD100-4E1 can communicate with operator PSTN or traditional PBX equipment through PRI, R2, SS7 trunk;
- Broadband protocol interoperability: IAD100-4E1 can interoperate with other IP PBX, NGN or IMS through SIP trunk;
- Docking method: Uplink to PSTN line or traditional PBX via E1 trunk, and downlink to IP PBX, call center and other platforms via SIP trunk .
- IP access supports static / DHCP / PPPoE / WAN sub-interfaces;
- 3\*10/100/1000Mbps adaptive Gigabit Ethernet interfaces (RJ45);
- 7 x24 Hours reliable operation , MTBF is greater than 800,000 hours;
- This equipment is suitable for large-capacity TDM access, call center/dispatch system, E1 trunk jumper;



# IAD100-256FXS

## Characteristics

- CORTEX-A9 dual-core C P U processor;
- FXS analog internal line 256 channels (R J 45);
- All conversations are concurrent;
- Software and hardware QOS guarantee;
- Support based on SIP protocol and its call control process;
- Support TR-069 and SNMP management protocol;
- IP address acquisition mode: static IP, DHCP, PPPoE;
- 3\*10/100/1000Mbps adaptive Gigabit Ethernet interfaces (RJ45);
- Local WEB, remote OMC near-end and remote maintenance management mode;
- 7 x24 Hours reliable operation , MTBF is greater than 800,000 hours;
- Firewall mechanism, ACL access control, ARP anti-attack, DDoS protection;
- Support G.711A, G.711U, G.729, G.723 voice codec;
- This device is suitable for IPPBX, IMS /NGN, call center, soft switch and other platforms to expand the analog internal line;
- The IAD 100-256FXS gateway converts the I P line to the analog internal line, and realizes the inter analog call in the IP network.
- Docking mode: upstream through SIP protocol to register to IPPBX/IMS and other platforms, downstream through gateway FXS port to connect to the analog phone

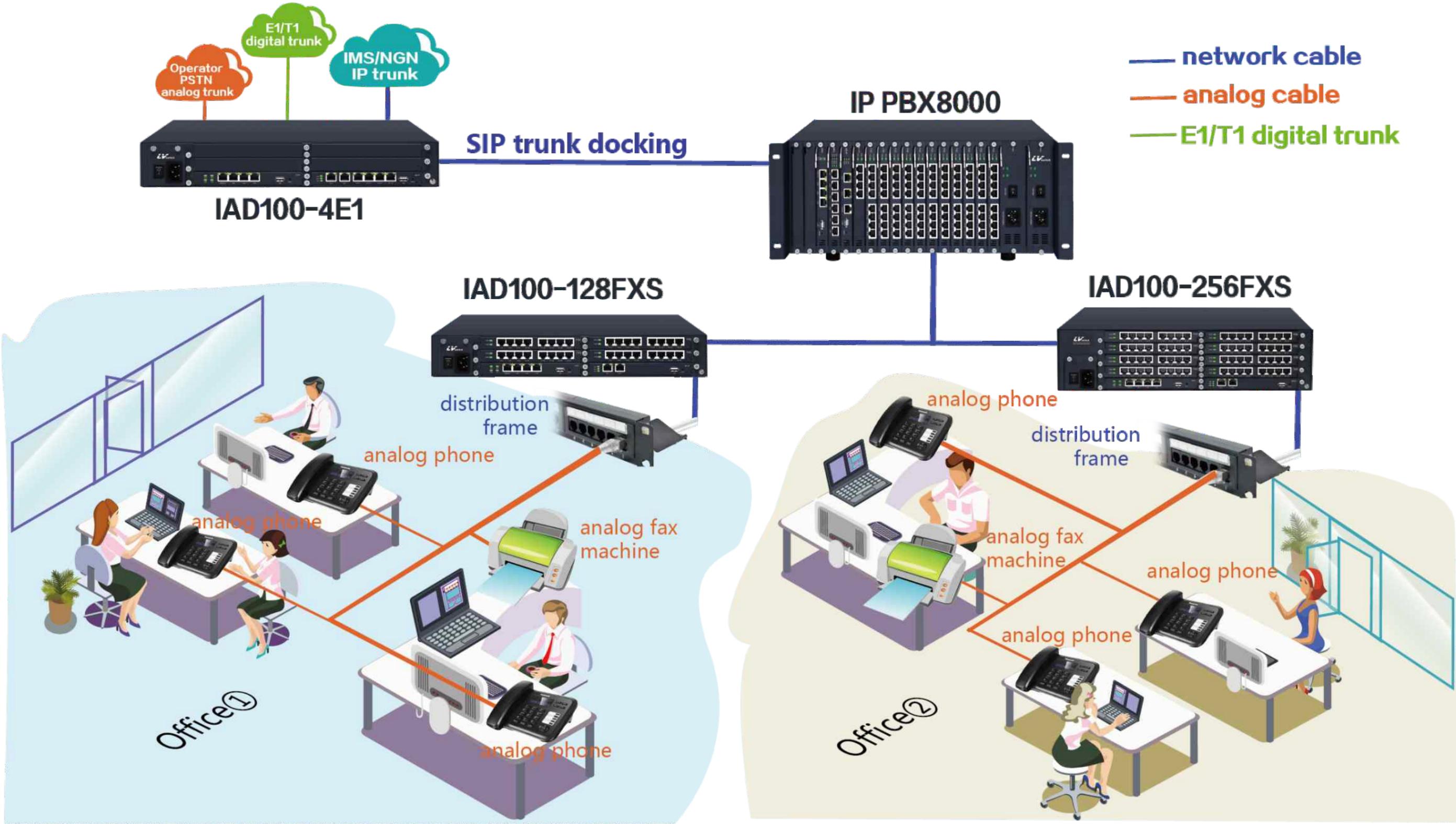


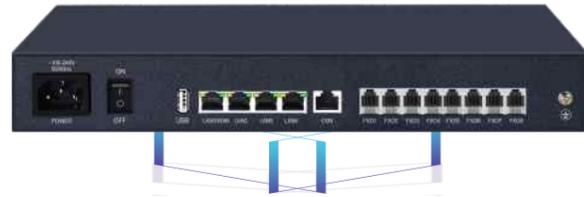
# IAD100-8E1

## Characteristics

- CORTEX-A9 dual-core C P U processor;
- The maximum 8-way E1 / T1 trunk permit (R J 4 5);
- All conversations are concurrent;
- With router function;
- Software and hardware QOS guarantee;
- Call routing processing: call out routing based on different trunks, support routing backup;
- Security features: support control and management of permissions by roles; support basic firewall functions, firewall black and white lists;
- Management features: provide WEB management interface, support TR069 and SNMP management protocols; provide system tools, alarm management, log management;
- Narrowband signaling intercommunication : IAD100-8E1 can communicate with operator PSTN or traditional PBX equipment through PRI, R2, SS7 trunk;
- Broadband protocol interoperability: IAD100-8E1 can interoperate with other IP PBX, NGN or IMS through SIP trunk;
- Docking method: Uplink to PSTN line or traditional PBX via E1 trunk, and downlink to IP PBX, call center and other platforms via SIP trunk .
- IP access supports static / DHCP / PPPoE / WAN sub-interfaces;
- 3\*10/100/1000Mbps adaptive Gigabit Ethernet interfaces (RJ45);
- 7 x24 Hours reliable operation , MTBF is greater than 800,000 hours;
- This equipment is suitable for large-capacity TDM access, call center/dispatch system, E1 trunk jumper;

# Enterprise Voice Resolution Plan



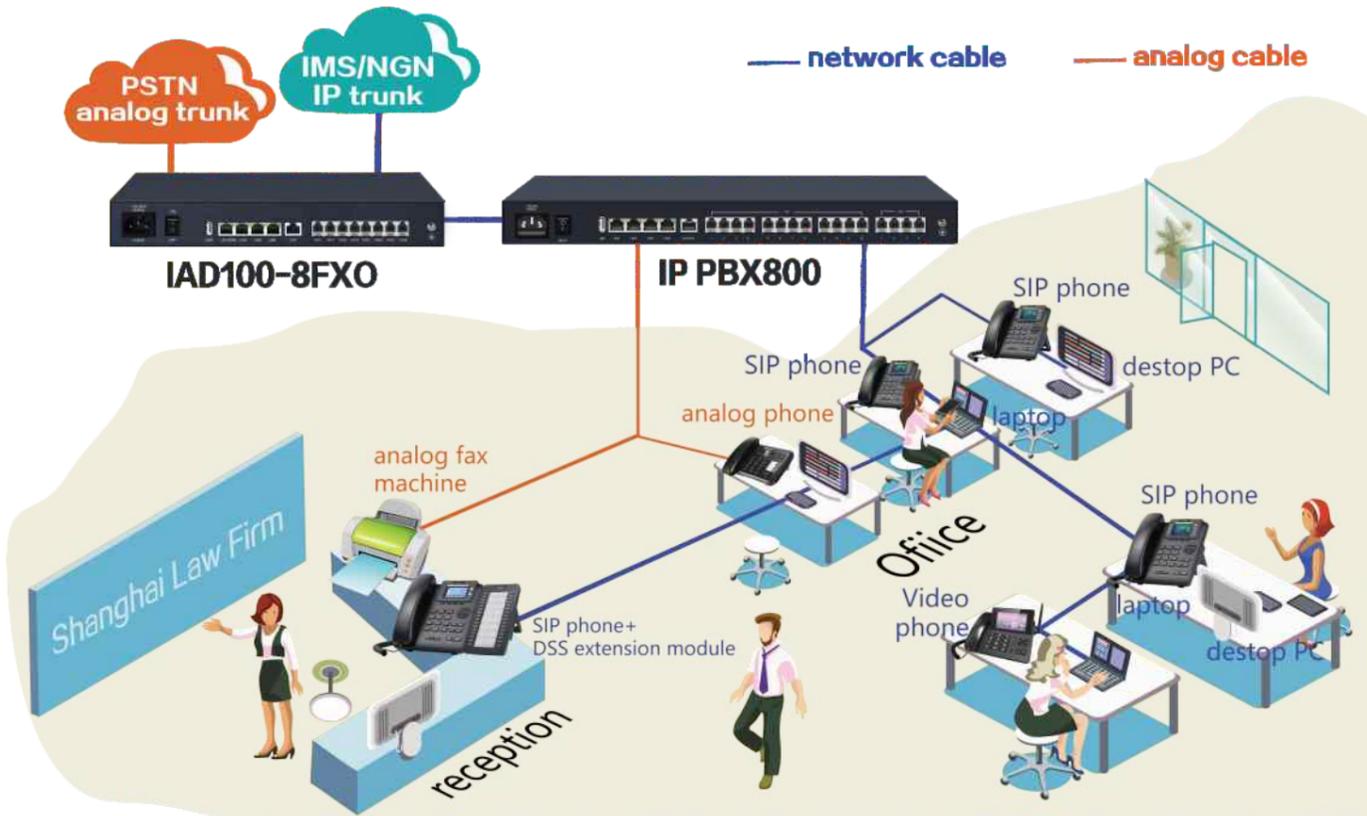


## IAD100-8FXO

### Characteristics

- CORTEX-A9 dual-core CPU processor;
- Intelligent and flexible incoming/outgoing routes;
- All conversations are concurrent;
- Software and hardware QOS guarantee;
- 7 x 24 hours reliable operation, MTBF is greater than 800 hours;
- This equipment is suitable for IP PBX, call center, dispatching station, softswitch and other platforms to extend the analog external line;
- IAD100-8FXO converts analog external lines into IP lines, and flexibly connects to platforms such as IPPBX/call centers through IP lines.
- Trunk connection mode: the uplink is connected to the analog external line through the gateway FXO port, and the downlink WAN port is connected to the IP PBX or call center through the SIP trunk;
- FXO analog trunk 8 channels (RJ 11 );
- 4 10/100/1000Mbps adaptive Gigabit Ethernet interfaces (RJ45);
- IP address acquisition: static IP, DHCP, PPPoE;
- Support SIP protocol and its call control process;

### Enterprise Voice Resolution Plan



### Compatible brands >



# A plan for unified communication in resorts and hotels

