Integrated multi-service IPPBX PES5200

- **built-in 4E1, 256 Road multimedia resources**
- **1U 19" all-in-one box chassis design**
- **Support standard protocols: SIP, MGCP, H.248**
- **Professional operating system and modular software architecture**
- **Support all basic voice services, supplementary services**

1. Overview

Pearl PES5200 not only meets the demand for basic voice communication, and makes full use of the built-in integration functions. With the powerful unified application, it provides a superior intelligent communications for your users and customers. It's able to streamline processes, optimize information exchange between systems, and then to create a simple, efficient communication experience. As a highly integrated IP phone system, PES5200 meet independent enterprises, as well as small, medium-sized enterprise networking offices and corporate headquarters communications needs. It provides a complete set of voice communication for the developing enterprises, message processing, networking, meetings, customer management, and unified communications solutions.

Pearl PES5200 support basic services, and provides a wealth of supplementary services such as short message, fax and data services. It can meet a variety of business needs of corporate users. In the same time, the system also provides supporting business server, including voice mail, fax services, call center, attendant console system more flexible, value-added business applications.。

2. Features and advantages

- **system design**

   1U 19" all-in-one design, high-performance CPU, FPGA, DSP and other hardware chip, professional embedded operating systems and distributed design. With product of a single, compact, PES5200 achieves in rich communication features.

- **System capacity**

   A maximum of 256 registered users, 4 * E1/T1/J1 interface, 256 DSP channels, 100 Road built-in multi-level IVR, and 256 Road, built-in conference resources

- **Protocol processing**

   1）SIP/MGCP/H.323/H.248/T.38;

   2）SS7/PRI/R2/TUP/ISUP/Q.SIG/uPRA;

   3）Wi-Fi/GSM/PHS, SMPP/SMAP和RADIUS;

- **Business fuction**

   PES5200 supports the broadband, narrowband and wireless users, and provides a wealth of supplementary services, the flexible expanded value-added services, short message, mobile roaming and other mobile services, the same time, supports the call center, built-in WEB management.

3. Technical Specifications

product	PES5200

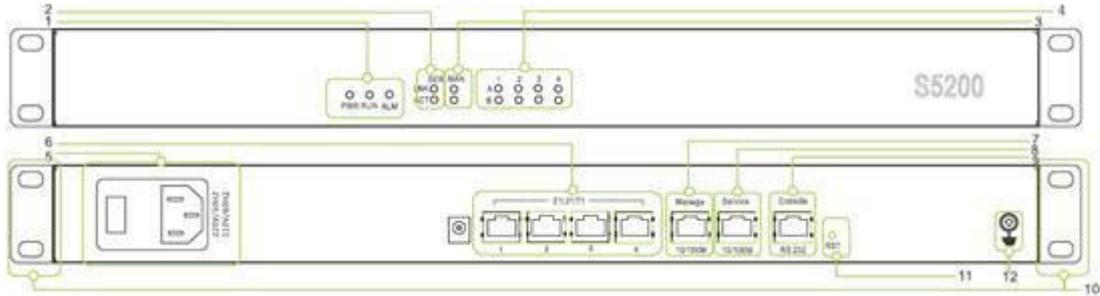| The main function and performance index	
Service Capability	• Basic service: voice, video, fax • supplementary service: CID, CFU, CFB, CFNA, CFN, CFO, CT, CW, local number inquiry, auto attendant, Three Party Services, conference call, Number share, user group, on-e phone with many numbers • value added service: voice mail, card number service, Dialing binding prepaid business, call center, Reservation-meeting, Exhaled type meeting, conference bridge, Attendant console and so on.
mobile technology	• Support Wi-Fi, PHS(RPC/CSC), GSM • Built-in HLR/VLR/SMS gateway, support roaming, switch, positioning • Support SMPP, SMAP
Operation and maintenance	• centralized network management, multi-management, centralized tracking, statistical services which are based on WEB • Personal self-service, Web navigation configuration features which are based on WEB. • CDR files output, RADIUS billing authentication interface, WEB ticket management • Support signaling tracking tools and FE port mirror
System performance and other special functions	• BHCA >70K • Support the function that as a terminal register trunk to other GK or SIP server • Support the function that as GW equipment controlled by the superior the GK / SS control completed trunk calls • Support any protocols switching among SIP/H.323/H.248/MGCP/SS7/PRI • Support automatic routing function • Support arbitrary transformation of caller/called number. • 15 level permissions to restrict calls; support high-capacity, black-and-white list and stopping and resetting machine interface (in conjunction with Pearl limited call server) and period limit call. • Support user groups, Synchronous vibration, queuing, re-election and Pickup. • Supports a maximum of 1000 calling number pool • Support the SS7 calling number hidden function • Support built-in IVR voice prompts, built-in the switchboard business and playback function of card number business. • Support card number business users prepaid business (in conjunction with Pearl BSS) • Support users the CDRs upload to Radius (in conjunction with Pearl BSS) • Support users the CDRs upload to network management (in conjunction with Pearl BMS)
VoIP technology	• Silence suppression, echo suppression, packet loss compensation, dynamic jitter buffer, DTMF detection / suppression / generation • G.711, G.723.1, G.729, G.726-32, T.30, T.38, FR, EFR, AMR

Physical characteristics

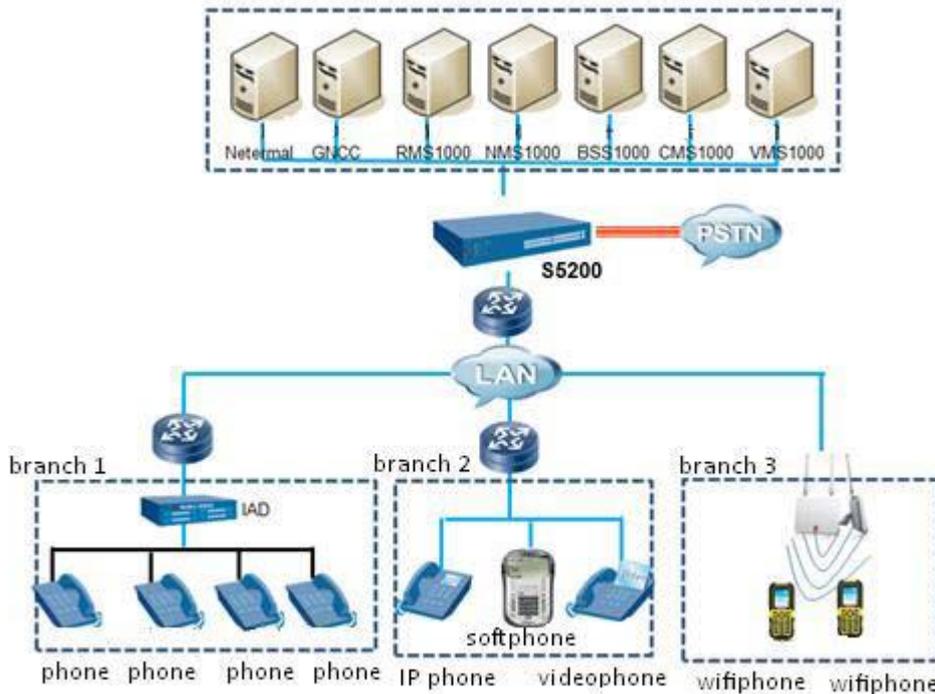| Power	AC input: 88V-264V, 47-64Hz
Runtime Environment	operating temperature: 10℃-40℃(50℉-104℉); Operating Humidity: 5%-90%(No condensation)
Storage environment	Storage temperature: 0℃-50℃(32℉-122℉); Storage humidity: 0%-95%(No condensation)
Size	486mm(length)×176mm(height)×324.2mm(depth)

Certification

Communication industry standard	Safety and electromagnetic compatibility
CE, FCC	FCC Part15 Class A, UL, CE

4. Frame diagram

1. PWR, RUN, ALM: system status lights
2. SER: Service light
3. MAN: network management light
4. A/B 1-4: E1 status light
5. AC interface
6. E1/J1/T1: E1 interface

7. Manage: network management interface
8. Service: Service interface
9. Comsole: maintenance interface
10. Double hanging ears
11. RST: reset
12. grouding interface

Note: Netermal: communication assistant
  RMS1000: Recording system
  BSS1000: Billing system
  VMS1000: voicemail

  GNCC: call center
  NMS1000: network management
  CMS1000: conference

PES5200 provides solutions for small and medium enterprises to help customers solve the basic voice communications, instant messaging and other business functions. Meanwhile it also provides mobile office, call centers, multimedia conferencing and other value-added applications business. In addition, through integration with existing enterprise information platform, it can reduce costs and improve the efficiency of the office customer information platform construction and maintenance, and enhance the company's image and core competencies.