

# Product Specification

## Internet Telephony PBX System

### IPX-300

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Change History:

Revision	Date	Author	Change List
Version 1.0	October 31, 2007	Brian Chen	Initial release

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## 1. PRODUCT DESCRIPTION

PLANET IPX-300 IP PBX telephony systems are designed and optimized for the small business in daily communications. It can support up to 30 user registrations and easy to install and manage a fully working system with the convenience and cost advantages. The future IP PBX telephony system offers all of the essential features of telephony which is required by small business users for their telecommunication/data needs.

The IPX-300 is a feature-rich SIP based IP PBX telephony system that integrates NAT functions to make it perfect for small business usage. The IPX-300 integrates traditional PBX system functions and provides many advanced functions including voice mail to email, web management etc. Designed to run on a variety of VoIP applications, the IPX-300 provides IP-based communications, voice conferencing, call detailed record (CDR), centralized Auto-Attendant (AA), and Interactive Voice Responses (IVR). The IPX-300 utilizes standard PSTN /GSM lines via the interfaces of FXO/GMS gateway to become a feature-rich IP PBX telephony system that supports seamless communications among existing local calls, SIP-based endpoints including low cost of long distance service, telephone number portability and one network for both voice and data.

With the IPX-300, standard SIP phones can be easily integrated in user's office. Users may integrate PLANET IP Phone VIP-154 series, VIP-155PT/ 350PT/ 550PT, the VIP-156/ 157/ 158/ 161SW of ATA (analog telephone adapter) series, and Gateway series VIP-281/ 281GS/ 480 to build up the VoIP network deployment in minutes.

## 2. PRODUCT FEATURES

### • PBX Features

- Automated Attendant (AA)
- Interactive Voice Responses (IVR)
- Voicemail support
- Call Detailed Record
- User Management via Web Browsers
- Call / Pickup Group
- Display 30 Registered User's Status: Unregistered / Registered / On-Call

### • Call Features

- Call Forward Immediate
- Call Forward on Busy
- Call Forward on No Answer
- Call Pickup / Call Park
- Caller ID
- Music on Hold / Music on Transfer
- Call Transfer / Call Hold / Call Waiting
- Three-way conference with feature phones  
(VIP-154 series, VIP-155PT/ 350PT/ 550PT and VIP-156/ 157/ 161SW series)

### • Router/Firewall Features

- DHCP Server for LAN Users
- Access Control / URL Filter
- Virtual Server / DMZ/ Port Mapping
- Static Route
- Pass-through
- UPnP

## 3. PRODUCT SPECIFICATION

### 3.1 MAIN COMPONENT

CPU:	ARM926EJS
RAM:	32M SDRAM CT51V561601A
FLASH:	8M Flash MX29LV640D
Switch:	IC+ IP101A

LAN	1 (10Base-T/100Base-TX, Auto-Negotiation)
WAN	1 (10Base-T/100Base-TX, Auto-Negotiation)
Protocols and Standards	IEEE 802.3 (Ethernet) IEEE 802.3u (Fast Ethernet) RFC 768 UDP RFC 783 TFTP RFC 791 IP RFC 792 ICMP RFC 793 TCP RFC 826 ARP RFC 1034, 1035 DNS RFC 2136 DDNS RFC 1631 NAT RFC 2068 HTTP RFC 2131 DHCP RFC 2516 PPPoE RFC 3261, RFC 3311, RFC 3515 RFC 3265, RFC 3892, RFC 3361 RFC 3842, RFC 3389, RFC 3489 RFC 3428, RFC 2327, RFC 2833 RFC 2976, RFC 3263
Cabling	10Base-T - 2-pair UTP Cat. 3, 4, 5, up to 100m (328ft) 100Base-TX – 2-pair UTP Cat.5, up to 100m (328ft)
Management	HTTP Web Browser
Internet Connection Type	Fixed IP, PPPoE, DHCP client
PBX Feature	Automated Attendant (AA) Interactive Voice Response (IVR) Voicemail support Call Detailed Record User Management via Web Browser Call / Pickup Group Display 30 Registered User's Status: Unregistered / Registered / On-Call
Call features	Call Forward Immediate Call Forward on Busy Call Forward on No Answer Call Pickup / Call Park Caller ID Music on Hold / Music on Transfer Call Transfer / Call Hold / Call Waiting Three-way conference with feature phones (VIP-154 series, VIP-155PT/ 350PT/ 550PT and VIP-156/ 157/ 161SW series)
Voice CODEC	G.711 a/u, G.723.1 (5.3, 6.3kbps), G.729A (8kbps), GSM, ILBC
Voice processing	DTMF detection/generation, Support password authentication using MD5 digest

### 3.2 PHYSICAL SPECIFICATION

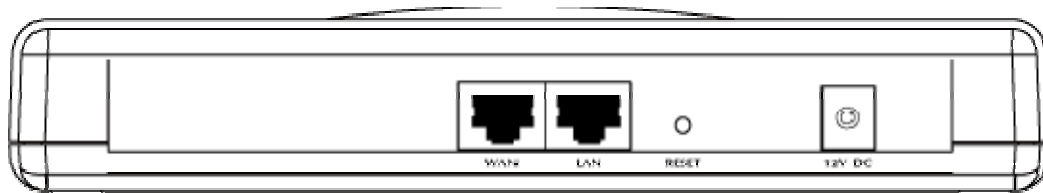
#### Dimensions

180 x 110 x 25 mm (W x D x H)

### Front Panel



### Rear Panel



#### LED definitions

Front Panel LED	State	Descriptions
<b>PWR</b>	On	PBX Power ON
	Off	PBX Power OFF
<b>WAN Port</b>	On	PBX network connection established
	Flashing	Data traffic on cable network
	Off	Waiting for network connection
<b>LAN Port</b>	On	LAN is connected successfully
	Flashing	Data is transmitting
	Off	Ethernet not connected to PC

### 3.3 ENVIRONMENTAL SPECIFICATION

#### Operating

Temperature: 0~40°C  
Relative Humidity: 10~90% (non-condensing)

### 3.4 ELECTRICAL SPECIFICATION

Input Voltage: 12V DC, 500 mA  
Power Consumption: 6 watts

### 3.5 REGULATORY COMPLIANCE

FCC Part 15 Class B  
CE Class B

### 3.6 RELIABILITY

MTBF > 50,000Hrs @25degree C MIL-STD-781C

### **3.7 BASIC PACKAGING**

- Internet Telephony PBX system unit
- Power Adapter
- Quick Installation Guide
- User's Manual CD

### **3.8 PACKAGE INFORMATION**

- **Gift Box Dimension**  
305 x 205 x 67 mm (W x D x H)
  
- **Gift Box Weight**  
0.72 Kg (gross weight)
  
- **Carton Dimension**  
750 x 630 x 440 mm (W x D x H)
  
- **Carton Weight**  
15.94 Kg (gross weight)
  
- **Carton Units**  
20 units