

Internet Telephony PBX System



Combining the cutting edge of Internet telephony and PBX manufacturing experience, PLANET now introduces the latest member of PLANET Wireless family, IPX-300W.

To bring the most satisfaction to customers, the IPX-300W not only provides the high quality of voice communication and wired Internet sharing capabilities but also offers Access Point (AP) function for daily wireless communication.

PLANET IPX-300W Wi-Fi IP PBX telephony systems are designed and optimized for the small business in daily communication. It can support up to 100 user registrations and easy to install and manage a fully working system with the advantages of convenience and cost. The future Wi-Fi IP PBX telephony system offers all of the essential features of telephony which are required by small business users for their telecommunication/data needs.

The IPX-300W is a feature-rich SIP based Wi-Fi IP PBX telephony system that integrates NAT functions to make it perfect for small business usage. The IPX-300W 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-300W provides IP-based communications, voice conference, call detailed record (CDR), centralized Auto-Attendant (AA), and Interactive Voice Responses (IVR). The IPX-300W utilizes standard PSTN /GSM lines via the interfaces of FXO/GSM gateway to become a feature-rich Wi-Fi IP PBX telephony system that supports seamless communication 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 a built-in IEEE 802.11b/g wireless AP / CPE, the Wi-Fi IP PBX offers wireless connectivity via 54Mbps data transmissions. Users may integrate PLANET IP Phone VIP-154T series, VIP-155PT/ 350PT/ 550PT, VIP-156/ 157/ 158/ 161W of ATA (analog telephone adapter) series, VIP-191/ 192 of Wi-Fi Phone, and Gateway series VIP-281/ 281GS/ 480 to build up the VoIP network deployment in minutes.

KEY FEATURE

PBX Features

- Automated Attendant (AA)
- Interactive Voice Responses (IVR)
- Voicemail support (VM)
- Call Detailed Record (CDR)
- User Management via Web Browsers
- Call / Pickup Groups
- Display 100 Registered User's Status: Unregistered / Registered / On-Call

Call Features

- Call Forward Immediately
- 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 featured phones (VIP-154T series, VIP-155PT/ 350PT/ 550PT and VIP-156 /157 /158 /161W series)

Router/Firewall Features

- DHCP Server for LAN Users
- Packet / URL Filter
- Virtual Server / DMZ/ Port Trigger
- Static Route
- NAT/Bridge mode
- UPnP

Wireless Features

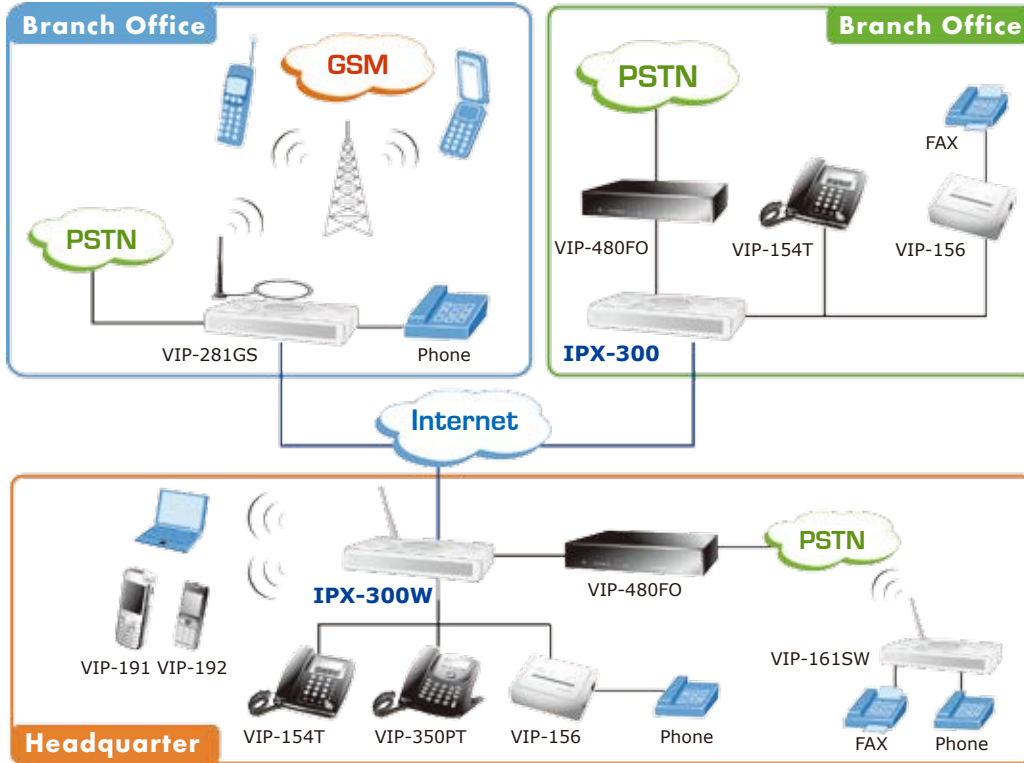
- IEEE 802.11b/ 802.11g
- AP / AP-Client / WISP and AP Mode
- 64/128 bits WEP Data Encryption
- WPA/ WPA-PSK/ WPA2/ WPA2-PSK/ Mix Mode
- WPAPSK/ WPS2PSK Mix Mode

SPECIFICATION

Product	Wi-Fi Internet Telephony PBX System
Model	IPX-300W
Hardware	
WLAN Standards	IEEE 802.11 b/g
Wireless Frequency Range	2.4GHz ~ 2.4835 GHz
Security	64/128 bit WEP data encryption, WPA, WPA-PSK, WPA2, WPA2-PSK, WPA / WPA2 mix mode, WPAPSK / WPA2PSK mix mode
Operating Frequencies / Channel	USA / Canada: 2.412 GHz - 2.426 GHz (11 channels) Europe: 2.412 GHz - 2.472 GHz (13 channels) Japan: 2.412 GHz - 2.477 GHz (14 channels)
Data Rate	802.11b: CCK (11Mbps,5.5Mbps), DQPSK (2Mbps), DBPSK (1Mbps) 802.11g: OFDM (54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps, 6Mbps)
Wireless Signal Range*	Indoors: Up to 230 ft (70 meters) Outdoors: Up to 1050 ft (320 meters)
LAN	1 RJ-45 (10/100Base-TX, Auto-Sensing/Switching)
WAN	1 RJ-45 (10/100Base-TX, Auto-Sensing/Switching)
Standards and Protocol	
Call Control	SIP 2.0 (RFC3261) , SDP (RFC 2327), Symmetric RTP
Registration	Max. 100 nodes / SIP IP phones/ ATA / FXO gateways
Calls	Max. 30 concurrent calls
Voice CODEC Support	G.723, G.726, G.729, G.711, GSM, iLBC
Voice Processing	DTMF detection and generation In-Band and Out-of-Band (RFC 2833), (SIP INFO) Supports password authentication using MD5 digest
PBX Features	Auto Attendant (AA) Interactive Voice Response (IVR) Records IVR via IP Phone Voicemail Support (VM) Voicemail Send to E-mail Call Detailed Record (CDR) User Management via Web Browsers Web Firmware Upgrade Backups and Restores Configuration file Call/Pickup Groups Displays 100 Registered User's Status: Unregistered / Registered / On-Call Displays 20 Registered Trunk's Status: Unregistered / Registered Fax Support using G.711 Pass-Through or T.38**
Call Features	Caller ID, Call Group, Call Hold, Call Waiting, Call Transfer, Call Forward (Always, Busy, No Answer) Call Pickup, Call Park, Call Resume, Music on Hold, Three-way conference with featured phones (VIP-154T series, VIP-155PT/ 350PT/ 550PT and ATA series: VIP-156/ 157/ 158 / 161W)
Internet Sharing	
Protocol	TCP/IP, UDP/RTP/RTCP, HTTP, ICMP, ARP, NAT, DHCP, PPPoE, DNS
Advanced Function	NAT/Bridge mode, DHCP server, Static Route, DMZ, Virtual Server, Port Trigger, Packet / URL Filter, UPnP, DDNS, SNMP, Ping test
Network and Configuration	
Connection Type	Static IP, PPPoE, DHCP
Management	HTTP Web Browser
LED Indications	System: 1, PWR WAN: 1, LNK/ACT LAN: 1, LNK/ACT WLAN: 1, LNK/ACT
Environment	
Dimension (W x D x H)	180 x 110 x 25 mm
Operating Temperature	0~40 degree C, 0~90% humidity
Power Requirement	12V DC
EMC/EMI	CE, FCC Class B
Remark	* Signal Range depends on the used antenna **T.38 support is dependent on fax machines, SIP providers and network / transport resilience

APPLICATIONS

IPX-300W Intra-Office Voice Communication



ORDERING INFORMATION

IPX-300W	Wi-Fi Internet Telephony PBX System (100 user registrations, 30 concurrent calls)
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RELATED PRODUCTS

ATA/ IP Phone – Auto-Provision / 3-way conference support

VIP-156	SIP Analog Telephone Adapter
VIP-156PE	802.3af PoE SIP Analog Telephone Adapter
VIP-157	1 FXS / 1 FXO SIP Analog Telephone Adapter
VIP-157S	2-Port SIP Analog Telephone Adapter
VIP-154T	SIP IP Phone
cVIP-154PT	SIP IP phone with PoE splitter built-in
VIP-154NT	SIP IP Phone with PSTN support
VIP-155PT	802.3af PoE SIP IP Phone
VIP-350PT	Business PoE IP Phone
VIP-550PT	Professional PoE IP Phone

Voice Gateway with FXS/ FXO/ GSM interface

VIP-281GS	2-Port H.323 / SIP VoIP GSM Gateway (1 x WAN, 1 x PSTN/ 1 x FXS/ 1x GSM; life line support)
VIP-281	2-Port H.323 / SIP VoIP Gateway (1 x WAN, 4 x LAN, 1 x FXO/ 1 x FXS; life line support)
VIP-480	4-Port H.323 / SIP VoIP Gateway (1 x WAN, 4 x LAN, 2 x FXO/ 2 x FXS; life line support)