

Internet Telephony PBX System with ISDN Support



PLANET IPX-1800N ISDN IP PBX system is designed and optimized for the SMB and SOHO daily communications. The IPX-1800N is the next generation voice communication platform for small to medium enterprises. Designed as an open, scalable, and highly reliable telephony solution, the IPX-1800N is able to accept 30 extension registrations, and effectively scales from under 30 users to as many as 50-user enterprises. Designed to run on a variety of VoIP applications, the IPX-1800N provides centralized call control, auto-attendant, voice conferencing, ISDN access, digital and IP-based communications. The IPX-1800N integrates 4 ISDN telephony interfaces to become a feature-rich PBX system that supports seamless communications between existing local calls, IP phones and SIP-based endpoints.

The IPX-1800N integrates telephony call processing, call control, voice mail, and a widely PBX application programming interface into a highly scalable architecture designed to support both traditional circuit-based and the Internet telephony service within a distributed enterprise communications network.

With IPX-1800N, standard SIP phones can be easily integrated in your office; plus the auto-config feature, you may integrate PLANET's IP Phone VIP-154T series, VIP-155PT, and the ATA (Analog Telephone Adapter) series - VIP-156/VIP-157 to build up the VoIP network deployment in minutes.

The IPX-1800N in the daily business processes is allowed to distribute IP technology to meet traditional voice services with proactive management interface so that enterprises can make people more productive, make more intelligent tasks, and gain more satisfaction of customers.

KEY FEATURE

SIP Features

- Static/Dynamic registration
- Call-based MD5 authentication
- NAT traversal for clients
- Outbound proxy with or without WAN
- Up to 5 SIP trunks for inter-PBX SIP trunking
- Inter-proxy call hand-off
- Auto-config for SIP IP Phones/ATA
- 30 registration/30 voicemail/10 concurrent calls
- Auto NAT Discovery and Traversal
- Built-in STUN Client
- RTP Proxy
- RTP Port Range Designation

Relational Provision

- Logical Partition/Relation between Users and Trunks
- Logical Provision on Outgoing and Incoming Calling Search Scopes
- Rich Dial-Plan Expressiveness thru Route Patterns
- User Privilege Propagation Over Intra-Trunks
- Object-Oriented Provisioning Paradigm

PBX Features

- Support call hold, call waiting, 3-way call conference with feature phones
- Built-in in-line call transfer
- Unconditional, unavailable, busy call forward
- Per-calling-number forward and rejection
- Call Privilege Grouping
- Group-based call pick-up
- Call-parking
- Up to 8 parties multi-room meet-me conference
- FXO disconnection tone detection
- In-band/RFC2833/SIP-INFO DTMF Translation
- QoS support
- Lifeline/Emergency call support
- Music on hold
- Outbound 900/0204 blocking
- Blacklist of Number Patterns

KEY FEATURE
Auto Attendant

- Configurable IVR prompts
- Key to reach operator
- Work time IVR
- 3-layer Auto Attendant
- Timeout interval and timeout action
- Music on ringing extensions
- Forward to voice mail on no-answer

Voice Mail

- User PIN
- 450 minutes recording time
- MWI notification
- E-mail notification
- Personal reception on unavailability and busy
- Voicemail forwarding
- Voicemail to email

SPECIFICATION

Product	Internet Telephony PBX System with ISDN Support
Model	IPX-1800N
Hardware	
LAN	4 RJ-45 (10/100Base-TX, Auto-Negotiation)
WAN	1 RJ-45 (10/100Base-TX, Auto-Negotiation)
Telephony Port	4 RJ-45 (Euro-ISDN ST-interface)
Standards and protocol	
Call control	SIP 2.0 (RFC3261)
Registration	Max. 30 nodes/SIP IP phones
Calls	Max. 10 concurrent calls
Voice CODEC support	G.711, G.726, GSM, G.723.1 (5.3, 6.3kbps), G.729A (8kbps)
Voice processing	Voice Active Detection, DTMF detection/generation, G.165/G.168 echo cancellation (ECN) (25 ms.), Comfort noise generation (CNG), Gain Control
PBX features	Support call hold, call waiting, 3-way call conference with feature phones (VIP-154T series, VIP-155PT and ATA series) Built-in in-line call transfer Unconditional, unavailable, busy call forward Per-calling-number forward and rejection Group-based call pick-up Call-parking Inter-PBX SIP trunking Multi-room meet-me conference Auto-attendant Voice mail system Call privilege grouping Broadcast/Memo Call Automatic Call Distribution ISDN interface for PSTN Inbound/outbound ISDN disconnection tone detection ISDN hunt group Caller ID detection Echo cancellation In-band/RFC2833/SIP-INFO DTMF translation Music on hold Direct line Outbound 900/0204 blocking
Auto Attendant Features	Configurable IVR prompts Work time IVR 3-layer Auto Attendant Key to reach operator Timeout interval and timeout action Music on ringing extensions Forward to voice mail on no-answer

SPECIFICATION

Product **Internet Telephony PBX system with ISDN support**

Model **IPX-1800N**

Voicemail Features

- User PIN
- Multilingual
- Multi-folder archive
- Fast-forward/Rewind/Undelete
- MWI notification
- E-mail notification and attachment (Unified messaging)
- Personal reception on unavailability and busy
- Voicemail forwarding
- Voicemail to email
- Reply calls or new calls in voicemail menu

Internet Sharing

Protocol TCP/IP, NAT, DHCP, HTTPS, DNS

Advanced Function QoS

Management HTTP

Environment

Operating Temperature 0~50 Degree C, 10~90% humidity

Power Requirement 12V DC

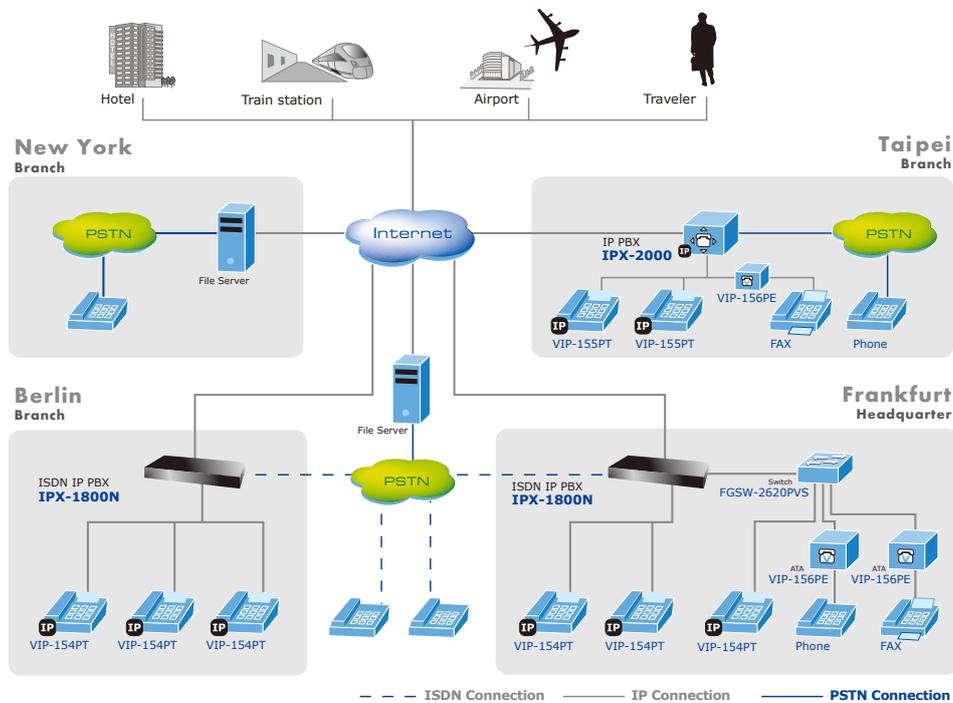
EMC/EMI CE, FCC

Network and Configuration

Connection type Static IP, PPPoE, DHCP

Management HTTPS (LAN/WAN access), HTTP (LAN access)

APPLICATIONS



IPX-1800N intra office voice communication

ORDERING INFORMATION

IPX-1800N	Internet Telephony PBX system with ISDN support (30 user registrations, 4 x ISDN)
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AVAILABLE MODULES

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
VIP-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