Internet Telephony PBX System (200 SIP User Registrations)

System Highlights

- 80 concurrent calls and up to 200 registers
- 60 conference attendees
- Unlimited SIP/IMS Trunks
- 15000 hours recording (internal storage)
- HD voice codec G.722 for perfect voice quality
- Voicemail to Email for not missing any important message
- Paging and intercom function strengthens the work efficiency
- Built-in SIP Proxy Server following RFC 3261
- Multiple Language of GUI for international business
- Web-based Control Panel for easy configuration and management of the system
- Hardware Echo Cancellation module for great and smooth communication
- Strong security features protect your system from hacking
- Maximum 8 ports FXO/FXS/GSM (on 2 slots)
- Records voice and voicemail to external USB disk
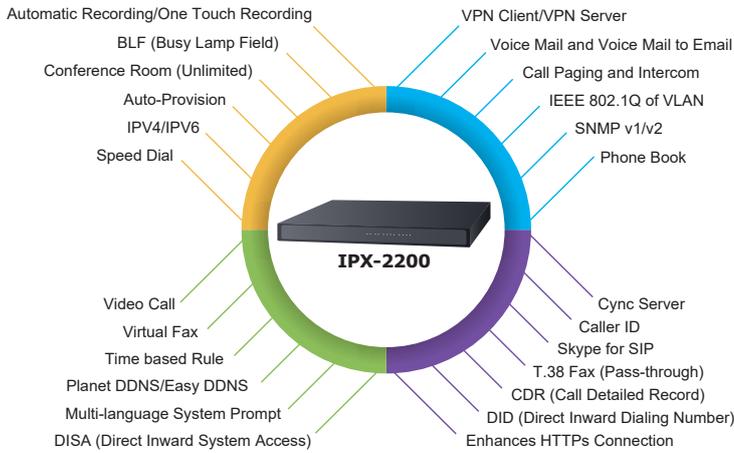- Quick setup wizard

Codec and Protocol

- SIP 2.0 (RFC3261), IAX and Lync server compliant
- Audio Codec: G.711-Ulaw, G.711-Alaw, G.722, G.726, G.729, GSM, SPEEX, Opus, AMR, AMR-WB
- Video Codec: H.261, H.263, H.263+, H.264 and VP8
- DTMF: RFC 4733, SIP info, in-band and auto

Network and Security Features

- DHCP Server, DDNS Client (PLANET DDNS & Easy DDNS)
- SNMP v1/v2, IEEE802.1Q VLAN
- IPv4/IPv6, TR069
- Manual Configuration of Static Route Table
- Troubleshooting (Ping and Traceroute)
- VPN Server and VPN Client
- Mitigates SIP Register DoS Attacks
- Prevents Abort Invite DoS Attacks
- Prevents SSH Login DoS Attacks
- Firewall and enhances HTTPS connection
- Geo-IP (Security policy based on IP address geographical locations)
- Data Backup and Recovery

PBX Features

- SIP Register with UDP/TCP/TLS/SRTP
- One Touch Recording
- Mobility Extension

Intuitive, Ease-of-Use IP PBX Management

PLANET **IPX-2200** advanced IP PBX telephony system is effortlessly set up and managed, thanks to its intuitive **web-based user interface** and **quick setup wizard**. As an **asterisk-based** solution, it offers the complete benefits of **pre-loaded SIP**, akin to features found in other high-end enterprise-level appliances. With a capacity to accommodate **200 user registrations**, the IPX-2200 simplifies the administration of a comprehensive voice-over-IP system, providing both convenience and cost advantages. The equipment is best paired with PLANET color IP phones to get the function going smoothly and to have a seamless connection between the software and hardware.

Model	IPX-1100	IPX-1102	IPX-2200
Extension User	100	100	200
Concurrent Call	50	50	80
Room Concurrent Call	30	30	60
Recording/Voicemail	400 hrs	400 hrs	15000 hrs
Module	-	2 FXO (Built-in)	Slot1/2 for Analog and GSM Module

Off-net Calling Capability, Call Restriction, Call Access Control

The IPX-2200 integrates **up to 8 calls** via the IPX-21FO (4 FXO), IPX-21SL (2 FXO + 2 FXS) and IPX-21GS (4 GSM) modules to form a feature-rich PBX system that supports seamless communications between the existing PSTN calls, analog phones, IP phones and SIP-based endpoints.

PLANET Networking & Communication

Automatic Recording/One Touch Recording
BLF (Busy Lamp Field)
Conference Room (Unlimited)
Auto-Provision
IPV4/IPV6
Speed Dial

VPN Client/VPN Server
Voice Mail and Voice Mail to Email
Call Paging and Intercom
IEEE 802.1Q of VLAN
SNMP v1/v2
Phone Book

IPX-2200

Video Call
Virtual Fax
Time based Rule
Planet DDNS/Easy DDNS
Multi-language System Prompt
DISA (Direct Inward System Access)

Cync Server
Caller ID
Skype for SIP
T.38 Fax (Pass-through)
CDR (Call Detailed Record)
DID (Direct Inward Dialing Number)
Enhances HTTPs Connection

- Black List
- BLF (Busy Lamp Field)
- CDR (Call Detailed Record)
- Conference Room
- DID (Direct Inward Dialing Number)
- SRTP (Secure Realtime Transport Protocol)
- DND (Do Not Disturb)
- IVR (Interactive Voice Responses)
- Follow Me, Call Spy and PIN Set
- Distinctive Ringtone
- Multi-language System Prompt
- Phone Book, Speed Dial
- Ring Group, SIP Trunk
- Skype for SIP, Smart DID, System Log
- T.38 fax (pass-through), voicemail and voicemail to e-mail

Call Features
- Call Back, Call Forward, Call Group
- Call Hold, Call Paging and Intercom
- Call Park, Call Pickup, Call Queue
- Call Record, Call Route, Blind Transfer
- Attend Transfer, Call Waiting
- Caller ID, Dial by Name
- Customized IVR, On-hold Music, Transfer
- 60 Conference Attendees
- One-to-One Video Call

Replacing Old PBX Easily without New Wiring

Cost-effective, easy-to-install and simple-to-use, the IPX-2200 converts standard telephones into IP-based networks. It enables the service providers and enterprises to offer users traditional and enhanced telephony communication services via the existing broadband connection to the Internet or corporation network.

With the IPX-2200, SMBs are able to save the installation cost and extend their past investments in telephones, conferences and speakerphones. The IPX-2200 can be the bridge between the traditional analog system and IP network without having to invest heavily.
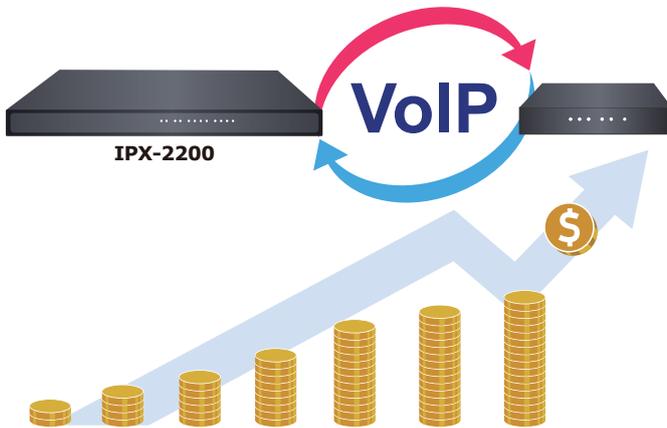
VoIP

IPX-2200

Distributed VoIP Network Infrastructure

In the new-generation communication age, the IPX-2200 supports IPv6 and VPN (client/server) connection to provide users with more flexible and advantageous communications products. With PLANET DDNS function, the IPX-2200 also helps users to apply and remember the login information easier. Its multiple-language feature helps user to quickly and friendly manage the system. Moreover, the IPX-2200 supports Lync server to which smart phone (using third-party app) and analog phone are connected via its communication with other devices of Lync server.

Standard Compliance

Compliant with the Session Initiation Protocol 2.0 (RFC 3261), the IPX-2200 is able to broadly interoperate with equipment provided by VoIP infrastructure providers, thus enabling them to provide their customers with better multi-media exchange services.

Compliant with Standard SIPv2.0 RFC 3261
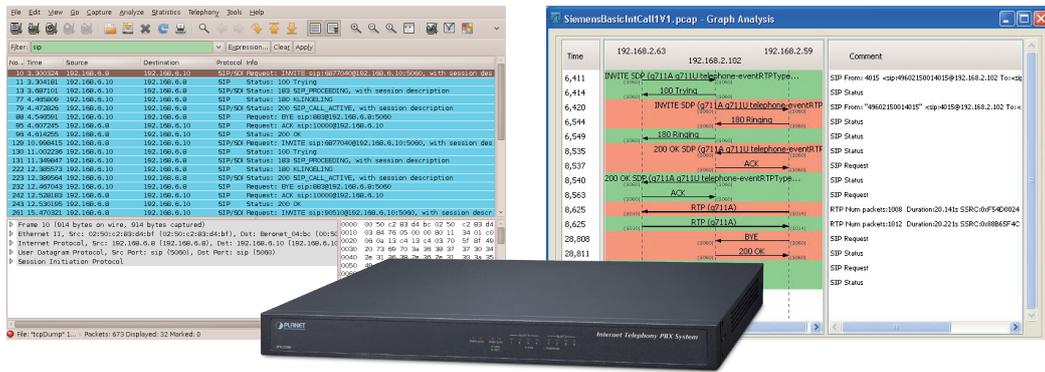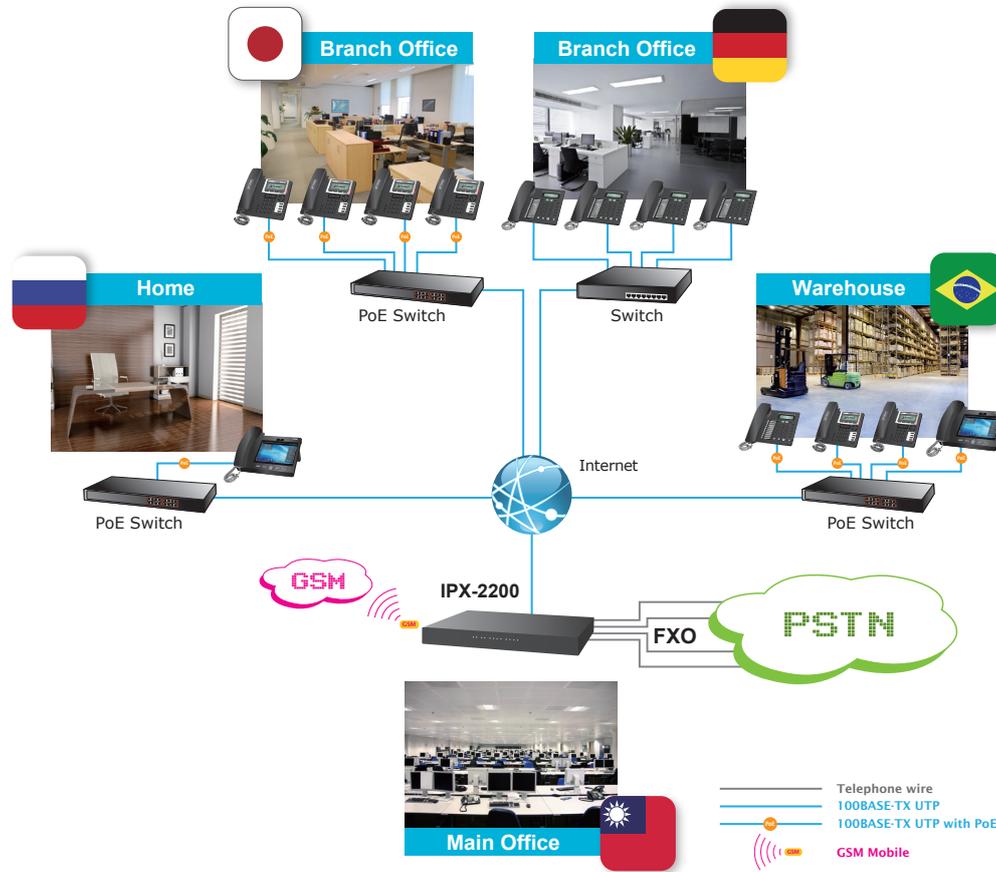

IPX-2200

Applications

Full Security with VPN Support

The IPX-2200 guarantees robust security and cost-effective connectivity for geographically dispersed offices within an organization, establishing a unified virtual network. This advanced VPN technology is not only ideal for connecting corporate branches but also empowering individual internet users seeking identity protection through proxy servers. With both VPN server and client functions, the IPX-2200 provides users with secure login capabilities, ensuring full security.

Supports VPN Client and VPN Server

VPN Client ⟵ ⟶ VPN Server

Internet   Internet

Office
Home
Factory

IPX-1102   IPX-2200
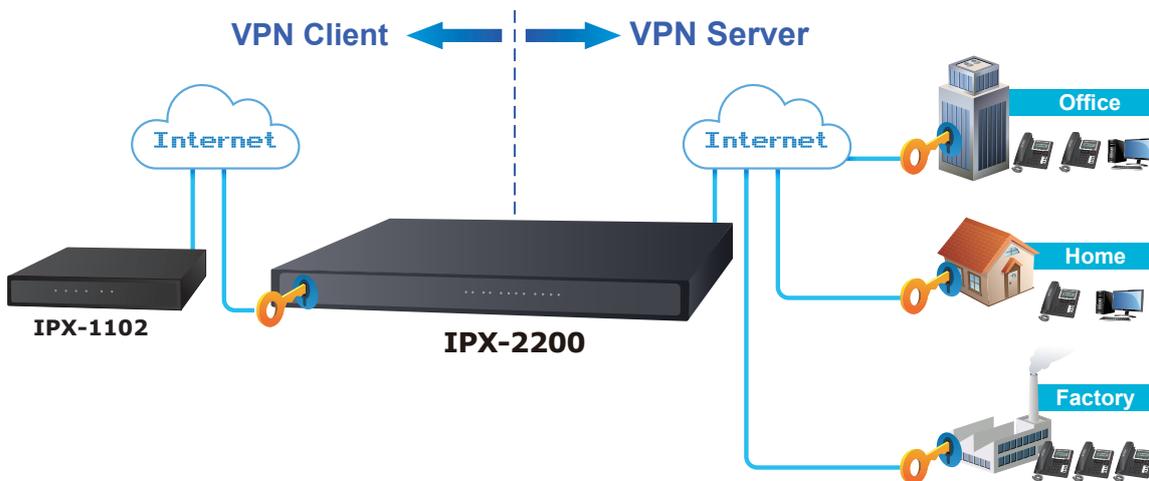
The IPX-2200 provides the essential features you need for business-class voice communications in an easy-to-manage solution. Designed for medium-sized businesses with branch offices, the IPX-2200 voice, conferencing, mobility, voice gateway, and IP PBX services are created on a single appliance.

Specifications

Product	IPX-2200
Hardware	
WAN	1 x 10/100BASE-T RJ45 for WAN, connecting to broadband modem or a WAN router
LAN	1 x 10/100BASE-T RJ45 for LAN, connecting to a LAN switch
USB	For external storage device File system format: FAT16, FAT32, EXTFAT, NTFS, EXT3, EXT4
Console Port	1 port (Baud rate: 115200)
Reset Key	Yes
2 Slots	Supports maximum 8 ports (FXO/GSM)
Protocols and Standard	
Standard	SIP 2.0 (RFC 3261), IAX2
Protocols	RFC 768 UDP RFC 793 TCP RFC 5246 TLS RFC 3711 SRTP RFC 826 ARP RFC 1034, 1035 DNS 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 IPv4, IPv6, VLAN, DHCP, PPPoE, DDNS, NTP, SNTP, TFTP, SSH, HTTPS, LDAP

Audio Codecs	G.711-Ulaw, G.711-Alaw, G.722, G.726, G.729, GSM, SPEEX, Opus, AMR and AMR-WB
Video Codec	H.261, H.263, H.263+, H.264 and VP8
Fax over IP	T.38 Fax (pass-through) Note: T.38 support is dependent on fax machine, SIP provider and network, transport resilience
Voice Processing	DTMF detection and generation RFC 4733, SIP info, in-band and Auto

Internet Sharing

Network Features	DDNS client (Planet DDNS and easy DDNS) DHCP server/SNMP v1/v2 IEEE 802.1Q VLAN IP assignment (DHCP/Static) IPv4/IPv6 Manual configuration of static route table Troubleshooting (ping and traceroute) VPN server and VPN client
Security Features	Mitigates SIP Register DoS Attacks Prevents Abort Invite DoS Attacks Prevents SSH Login DoS Attacks Firewall and enhances HTTPS connection

Features

PBX Features	SIP Register with UDP/TCP/TLS/SRTP Phone Auto-Provision One Touch Recording Mobility Extension Black List BLF (Busy Lamp Field) CDR (Call Detailed Record) Conference Room DID (Direct Inward Dialing Number) DISA (Direct Inward System Access) DNIS (Dialed Number Identification Service) SRTP (Secure Realtime Transport Protocol) DND (Do Not Disturb) FOP (Flash Operation Panel) Status Monitoring	IVR (Interactive Voice Responses) Follow Me, Call Spy and PIN Set Distinctive Ringtone Multi-language System Prompt Multiple Language of GUI Phone Book, Speed Dial LDAP Server for phonebook Record Files Download Ring Group, SIP Trunk Skype for SIP, Smart DID, System Log T.38 fax (pass-through), voicemail and voicemail to e-mail Time-based Rule PBX log, web access log and PBX debug log
Call Features	Call Back, Call Forward, Call Group Call Hold, Call Paging and Intercom Call Park, Call Pickup, Call Queue Call Record, Call Route, Blind Transfer Attend Transfer, Call Waiting	Caller ID, Dial by Name Customized IVR, On-hold Music, Transfer 60 Conference attendees One-on-One Video Call

System Capacity

System Capacity	80 simultaneous calls Up to 200 IP phone registers/extensions Recording and Voicemail: 15,000 hours

Network and Configuration

Access Mode	Static IP, DHCP
LED Indications	SYS: 1, LNK/Off WAN: 1, LNK/Off LAN: 1, LNK/Off PWR: 1, LNK/Off SLOT: FXO/GSM (Red), FXS (Green)
Dimensions (W x D x H)	437.6 x 172 x 42.8 mm
Operating Environment	-10~45 degrees C, 10~80% humidity
Power Requirements	AC 100V-240V, 50/60Hz, 1.5A (max.)
EMC/EMI	CE, FCC Class B, RoHS

Ordering Information

IPX-2200	Internet Telephony PBX System (200 SIP User Registrations)

Accessories

IPX-21FO	4-Port FXO Module for IPX-2100, IPX-2200 and IPX-2500
IPX-21SL	4-Port Life-Line Module for IPX-2100, IPX-2200 and IPX-2500 (2FXO + 2FXS)
IPX-21GS	4-Port GSM Module for IPX-2100, IPX-2200 and IPX-2500

Related Products

IPX-1100	Internet Telephony PBX System (100 SIP User Registrations)
IPX-1102	Internet Telephony PBX system with 2-port FXO (100 SIP Users registrations)
VIP-1140PT	High Definition Color PoE IP Phone
VIP-1260PT	High Definition Color PoE Gigabit IP Phone
ICF-1900	High Definition Touch Color Screen Smart Media Android SIP Conference Phone
VGW-420FO	4-Port SIP VoIP Gateway (4 FXO)
VGW-420FS	4-Port SIP VoIP Gateway (4 FXS)

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IPX-2200