

IPX Voice Communication Features and Services

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| Auto Attendant | Virtual operator to redirect calls |
| Direct Inward Dialing (DID) | Mapping public number to any extensions |
| Auto CO Line Hunting | Priority based CO line auto selection |
| Multi Operator Hunting | Auto selection of multiple operators |
| PBX/ATA Dial Plan | Customizable prefix for external/internal calls |
| Speed Call Short Number | Per extension based speed call definitions |
| Life Line | Power failure life line to analog extensions |
| Custom Define Call Types | Define international/long dist/local/emergency, etc |
| Call Control | Call authorization to destination types |
| Custom Greeting Recording | Record and change welcome voice using phone |
| Custom Greeting Wave File | Change greeting with wave file using PC and web |
| Paging | Broadcast announcement through loud speaker |
| <i>Zone Paging</i> | <i>Page over group of end devices</i> |

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| Auto Call Distribution (ACD) | Dispatch call sequentially/randomly/fair selectively |
| Group Ring | Simultaneously ring a group of phones |
| Follow me | Trace called party internally and externally |
| Voice Mail Box | Customizable On-board voice mail box services |
| Voice Mail Announcement | Light blinking/voice announce of new messages |
| Voice Mail Retrieval | Manage messages using phone or online web |
| Voice Email | Covert voice message to email attachment |
| <i>Click to Call and Phone Book</i> | <i>Web based call origination</i> |
| Multi Language IVR Built-in | Default IVR in English, Spanish, Chinese, Arabic |
| User Define IVR | User can define any complex IVR in any language |
| Voice Database Mgmt | System voice pieces recording and management |
| Live Conversation Recording | Scheduled or on-demand recording of live calls |
| <i>Live Talk Monitoring</i> | <i>Authorized staff to tap live calls</i> |
| Legacy PBX Trunking | Group FXO or FXS ports for trunking to legacy PBX |
| Virtual Call Agent | Virtual agent to replace operator in legacy PBX |
| Calling Group Control | IP PBX partition per resources and memberships |
| Alarm/Wakeup Call | Scheduled alarm such as wakeup call |

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| Remote DID | Mapping local public DN to remote extension |
| IPX Stacking | Auto CO/VoIP line selection over multiple IPX |
| Resource Sharing Control | Control the usage of local resource by others |
| Authentication Account | PIN number control and accounting |
| VIP number and VIP station | Waive authentication for VIP |
| Anonymous Station Call | Control of anonymous IPX station calls |
| VoIP Peering | Voice intranet by peering IPX systems |
| Server-Client Intranet | Voice intranet with NAT traversal |
| Neighbor State | Intranet peer online state monitoring |
| VoIP Subscriber Lines | Multiple VoIP subscribe lines |
| Concurrency Control | Simultaneous calls over one VoIP line |
| VoIP Trunking | Unlimited trunks to VoIP extranet |
| Trunk Authentication | IP address and prefix based authentication |
| IP Phone Support | SIP based IP phones, soft phones, WiFi phones |
| Intelligent Call Routing | Optimal external call path selection policy |
| Digit Translation | Change DN number along voice routing path |

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| Call Forwarding | Always/no answer/busy forwarding |
| Schedule Forwarding | Call forwarding on day and time schedule |
| Night Service | Call forwarding to people on duty at night |
| Call Waiting | Switch connection to the 2nd inbound call |
| Call Holding | Put caller on hold and resume later |
| Custom music on Hold | Change music on hold using PC and web |
| Call Parking/Retrieve | Park a call and retrieve it from different phone |
| Call Transfer | Manually redirect a call to the 3rd party |
| 3-Way Call | 3 party conference call |
| Call ID | Internal extension name and number display |
| CO Line Call ID | FSK/DTMF Call ID to internal extension |
| <i>Distinct Ringing</i> | <i>Ring tone selection per extension</i> |
| Ring back Music | Custom music for ring back |
| Do Not Disturb | Decline inbound calls with voice message |
| Call Blocking | Refuse calls from certain originators |
| Pick up Call | Pick up a call ringing at other phone |
| Absent Call | Call forwarding to operator when absent |
| Number Announcement | Announce the extension number |
| Call Back | Hang up incoming call, immediately call back |
| <i>Hot Line</i> | <i>Auto connection to a designated party</i> |

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| Call Log | Log calls on screen and to PC files |
| CDR Delivery | Send CDR to up to 3 billing servers |
| FAX Detection | PSTN Analog FAX |
| FAX over IP | Auto FAX detection and T.38 FAX over IP |
| Key Interval Adjustment | Tune timeout between key entering |
| Extension Length Change | Extension length from 2 digits to 7 digits |
| Number Planning | Extension numbers reassignment |
| Virtual Extension | Alias for any addressable voice device |
| Logic Extension | Alias for legacy PBX extension |
| Speaker Volume Control | Adjust analog phone speaker volume |
| MIC Volume Control | Adjust analog phone microphone volume |
| CO Line Gain Control | CO line input and output gain adjustment |
| Busy Tone Tuning | Custom busy tone frequency for local PSTN |
| Web Extension Manager | Manage individual extension through web |
| Keypad Extension Manager | Key commands for extension management |
| Polarity Reverse Detection | CO line polarity reverse for billing accuracy |
| Polarity Reverse Relay | Relay polarity change signal to FXS line |

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| G711a/u,G729a,G723,G726 | Auto codec negotiation and selection |
| Signaling Encryption | Encrypt VoIP signaling data |
| Media Encryption | Encrypt VoIP voice media data |
| Network Quality Adaption | Auto adjustment of DSP processing |
| Custom Port Numbers | Change signal and media port numbers |
| Media Redundancy | RTP redundancy to overcome packet loss |
| DSP Parameter Tuning | Custom modeling of VoIP network for DSP |
| Registration Service | VoIP device registration service |
| Location Service | VoIP network and device location service |
| Proxy Service | Signaling and media proxy service |

Features in slanted fonts will be available in the future IPX software releases.

IPX Technical Specifications

IPX B1000



IPX H600



IPX 200



| Model | IPX P200 | IPX H600 | IPX B1000 |
|------------------------|----------|----------|-------------|
| Analog Trunk Ports | 0/1/2 | 0/2/4/6 | 0/4/8/12/16 |
| Analog Extension Ports | 0/1/2 | 0/4/8 | 0/4/8/12/16 |
| VoIP Subscriber Lines | 8 | 32 | 64 |
| VoIP Trunks | 8 | 32 | 64 |
| IP Extensions | 8 | 32 | 64 |
| Virtual Extensions | 16 | 64 | 128 |
| Simultaneous Calls | 8 | 16 | 32 |
| WAN Port (10/100BT) | 1 | 1 | 1 |
| LAN Ports (10/100BT) | 1 | 1 | 1 |
| LAN PC Clients | 8 | 32 | 64 |

Hybrid IP PBX

- Analog Phones, analog Trunks
- IP Phones, VoIP Lines, VoIP Trunks

Full PBX Service

- Call Fwd/Xfer/Hold/Wait/Park
- Call ID, Conf Call, Wakeup
- IVR, Multi Languages
- Voice Mail, Voice Email
- ACD, Call center
- Live Recording
- Billing Service

Voice Intranet

- Wide Area Virtual PBX
- Secured VoIP
- Intelligent Call Routing
- PBX interworking
- Remote Management
- IP FAX

Access Router

- DHCP, DNS Service
- NAT/Firewall
- Tunnel Based Data VPN
- QoS Management
- Email Service

System Management

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| SNTP Client | Auto sync of clock with known time server |
| Time Zone | Custom selection of local time zone |
| Daylight Saving Time | Change the start and end of daylight saving time |
| Remote Management | Access and manage IPX system remotely |
| Configuration Backup | Backup and restore system configuration to PC |
| Auto Configuration | Centralized configuration for all managed IPX |
| Software Upgrade | Web based software upgrade |
| On Screen Event Log | 9 levels and 7 types of system event log |
| Syslog | Send system event logs to syslog server |
| Network Quality Test | Verify IP network quality for VoIP service |
| Neighbor Server Status | Check DNS, DHCP, Email, SIP servers etc |

Network Features

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| IP Router | Forwarding packets between IP networks |
| NAT and NATP | Network address and port translation |
| Ethernet Switch | Switch frames between attached networks |
| State Full Firewall | State based TCP/UDP/application security policy |
| IP Address Book | Define concerned IP stations and networks |
| IP Application Book | Define concerned IP applications |
| MAC Group Book | Define concerned MAC addresses |
| Port Mapping | Publish Internal servers to the Internet |
| Multi Homing Service | Multiple IP addresses and mappings |
| VPN Service | Tunnel based virtual private network |
| Static Routing | User configuration of IP routing table |
| PPPoE for ADSL | PPPoE protocol for ADSL Internet access |
| DHCP Client | Obtained IP configuration from ISP |
| DHCP Service | Provide IP configuration to LAN PC stations |
| Address Reservation | Fixed IP address allocation based on MAC |
| Display of PC Clients | Information of served LAN PC stations |
| DNS Service | Relay DNS service for LAN PC stations |
| Built-in Domain | Auto binding of IPX domain name and IP address |

| Model | IPX 200 | IPX H600 | IPX B1000 |
|----------------------------|-------------|-------------|-------------|
| DC Power | 12V 1A | 12V, 2A | - |
| AC Power: 100-240V,50-60Hz | Adaptor | Adaptor | Direct Line |
| CO (PSTN) Port | RJ11 | RJ11 | RJ11 |
| Extension Phone Port | RJ11 | RJ11 | RJ11 |
| WAN/LAN Ethernet Port | RJ45 | RJ45 | RJ45 |
| Operating Temperature | 0°C - 50°C | 0°C - 50°C | 0°C - 50°C |
| Operating Humidity | 10%-90%, NC | 10%-90%, NC | 10%-90%, NC |
| Dimension (WxDxH, mm) | 102x77x23 | 225x140x30 | 360x180x35 |