

BEST COST EFFECTIVE
VoIP Solution



OpenVox



OpenVox IX160/160P Datasheet

OpenVox IX160/160P is a standard 19" 1U high-performance PBX solutions. Designed and rigorously tested for optimal performance, this appliance allows users to integrate up to 2 pieces of OpenVox PCI-E telephony interface cards, with any combinations of FXS/FXO, BRI, E1/T1/J1 or transcoding interfaces.

The IX160/160P adds support for i3 and i5 motherboards to provide more powerful performance and can handle up to 2000 concurrent calls and thousands of user extensions. In addition, IX160/160P can integrate a variety of high-definition audio/video codecs, bringing users a high-fidelity, high-definition audio/video call experience.

The IX160/160P supports comprehensive protocol conversion, including SIP, IAX2 protocols in IP side and BRI, PRI, SS7, R2 in CPE side. Taking the full advantages of open source platform, the IX160/160P will be preloaded with OpenVox UC system, Issabel, FreePBX, VitalPBX, PBX in a Flash, Elastix® IPPBX software. The default pre-installed OpenVox UC system makes the deployment, configuration, and use of a PBX system ever easier. Getting started is a breeze with a user-friendly GUI. Powerful IX devices allow enterprises to grow while minimizing communication costs.

Typical Applications

- Optional Pre-loaded Free Open Source IPPBX System
- Combination of FXS/FXO, BRI, E1/T1/J1 Interface
- PRI/SS7/R2 to SIP Gateway
- PRI/SS7/R2/BRI/FXS/FXO Signaling Converter
- PRI/SS7/R2 TDMoE Gateway
- Flexible Applications Selection (IPPBX or Firewall)
- Zero Touch IP Phones Auto-Provisioning
- User Control Panel

Safety and Reliability

IX160/160P is a risk-free solution with built-in Redundant Power Supply (RPS) and Uninterruptible Power Supply (UPS) that keeps your system and data away from damage or lost caused by unexpected power failure.

The optional hardware RAID 1 support provides better data backup for your system. When RAID1 is installed, thus users can see the status of the storage devices and be alerted when HDD is crashed, then simply replace a backup HDD ASAP.

Combination Options

- A400E/A(E)810E/A(E)1610E/A(E)2410E
- B(E)200E/B(E)400E
- D(E)130E/D(E)230E/D(E)430E/D(E)830E/D(E)1630E

Except A400E, all compatible cards can be applied together with EC module.

IX160/160P supports combination of two cards for example:

- A(E)1610E + B(E)400E
- D(E)430E + B(E)400E
- D(E)430E+A(E)2410E
- D(E)430E + A(E)1610E
- A(E)810E + A(E)810E

Features

- G.711(a-law & μ-law), G.722, OPUS, AMR-NB/WB, SILK, G723.1, G726, G729, GSM, ADPCM, iLBC, H263, H263P, H264, VP8, etc.
- Support SIP & IAX2
- Echo canceller
- Simple and Convenient Configuration via Web GUI
- User Portal
- Extension User Privileges
- System Administrators Monitor
- Event Notification
- Support Backup/Restore
- Remote Management
- Hot Standby
- System resource monitoring
- Network configuration
- Support VLAN
- Support Static Route
- DHCP server for dynamic IP
- Support Fail2ban
- Secure communications (SRTP & TLS encryption)
- Support Multiple VPN protocols including Open-VPN, L2TP, N2N, SSTP
- Import/Export Extensions
- Support SIP Forking
- Call Transfer/Forwarding/Waiting
- Follow-Me (Find me calling)/Ring Group/Queue
- Quickly Auto Provision IP Phones
- Support IMS VoLTE
- Flexible Inbound/Outbound Route
- Call Blacklisting
- Support international call restrictions
- AutoCLIP
- Time Condition
- PIN List
- Automated Attendant (IVR)
- Phonebook
- LDAP Service
- DISA (Direct Inward System Access)
- Conference bridge/service
- Call Back
- Call Parking
- Paging and Intercom
- Speed Dials
- Call Recording
- Customizable announcements
- Music On Hold
- Support Open API Protocol (based on Asterisk)
- Click2call
- WebPhone
- Access Control Interface based on ACL
- AI TTS
- Support for video calls and presence
- SIP Instant Messaging
- Voicemail
- Missed Calls Notification
- Remote SMTP Email Server
- Antispam support
- Support Mail Relay
- Fax to Email
- Hotel & Wakeup Service
- Call Detail Records (CDR)
- Billing Report

Specifications

IX160/160P		
Models	IX160	IX160P
Max Analog Ports	48	
Max BRI Ports	8	
Max E1/T1/J1 Ports	4	16
Recommended User Capacity	200 Users	1200 Users
Max Concurrent Calls*	600 Concurrent Calls with G.711 Codec, 200 Concurrent Calls with G.729 Codec	2000 Concurrent Calls with G.711 Codec, 1000 Concurrent Calls with G.729 Codec
Recommended Call Capacity	120 Calls	450 Calls
Protocol	SIP (RFC3261), IAX2	
Transport Protocol	UDP, TCP, TLS, SRTP	
Codec	G711 (alaw/ulaw), G722, G723.1 G726, G729, GSM, ADPCM, iLBC, H263, H263P, H264	
DTMF	In-band, RFC2833, SIP INFO	
IP Services	Static IP, DHCP, VPN, Firewall, PPPoE, Bridge	
Firewall	Yes	
T.38 Fax	Yes	
CPU	1.83GHz Intel® Celeron® N2930	Intel® i5
RAM	Up to 8GB DDR3L 1333	Up to 32GB DDR4 2400
Storage	MSATA SSD and 2.5 inch SATA HDD	
RAID	Yes (Optional)	
Mini PCI-E	2	
NIC	2* 10/100/1000M	
UPS	Yes (Optional)	
Power Supply	100-240V AC	
Redundant Power Supply	Yes (Optional)	
Display	HDMI	
LCD Display	No	
USB	2 USB2.0	2 USB3.0
Power Consumption	20W	60W(Maximum)
Operating Temperature	0°C to 50 °C	
Storage Temperature	-40 °C ~ 125 °C	
Humidity	10 ~ 90% NON-CONDENSING	
Dimension	440*370*66.7mm	
Net Weight	4.13kg	
Warranty	2 Years	

* Maximum number of calls tested under laboratory conditions