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VoIP Solution



# OpenVox



## OpenVox IX140 Datasheet

OpenVox IX140 is a standard 19" 1U appliance. It allows users to integrate up to 2 pieces of OpenVox PCI-E telephony interface cards, with any combinations of analog, BRI, PRI, GSM or transcoding interfaces. The optional hardware RAID 1 support provides better data backup for your system. The optional HDD case provides the possibility for hot plug function to the storage device. When RAID1 is installed, thus users can see the status of the storage devices from a GUI and then simply replace a backup HDD whenever needed without opening the appliance. What's more, the IX140 provides two flexible ways of power supply: internal and external and it's up to you to select one of them to power up the IX140.

The IX140 supports comprehensive protocol processing, including SIP, H.323 protocols in IP side and BRI, PRI, SS7, GSM and some protocols transcoding in CPE. Taking the full advantages of open source platform, the IX140 will be preloaded with Issabel, Elastix®, PBX in a Flash™, FreePBX or trixbox® IPPBX software.

### Motherboard Main Features

- Powerful Intel (R) Celeron(R) N2930 Processor
- 2MB L2 cache, 64-bit instruction
- PCIe x4 Golden Finger
- Up to 2 Ethernet channels
- Up to 1 Mini PCIe sockets for wife cards
- Up to 8 GB DDR3L 1333
- 8Mbit flash for AMI BIOS
- 1VGA port (DB15) for display interface
- Header for LPC bus (use for flash recovery or I/O expansion)
- Low EMI Emission level and high Electro Magnetic susceptibility
- Voltage range :12V DC supply through DC jack

## Motherboard Technical Specifications

- Powerful Intel (R) Celeron(R) N2930 Processor
- CPU: 1.83GHz Intel(R) Celeron(R) N2930
- Storage: 1 SATA slot, 1 mSATA Socket
- Three front panel LEDs, for 3 programmable GPO status indicator
- Push button: for mode setting switch, accessing a programmable GPI, active low means switch is pressed
- PCIe Interface: PCIe x4 Golden Finger
- Expansion: 1 Mini PCIe slot
- Connectivity: Up to 2 Ethernet channels (10/100/1000Mbps speed) and 2 PCIe Ethernet controllers  
Support PXE (for remote booting)
- I/O: 1\*DB15 VGA port, 4\*USB 2.0 port
- Board size: 6 x 6" (152.4 x 152.4 mm)
- Temperature: 0°C to 60°C (contact factory for more temp. options)
- Firmware: AMI\_UEFI BIOS
- PCB layer: 6
- Power dissipation: ~7.5W (Minimum Power Dissipation)

## Combination Options

- A400E/(E)810E/(E)1610E
- B100E/(E)200E/(E)400E
- D(E)130E/(E)230E/430E
- G400/410E

Except A400E, B100E, G400E and G410E, all compatible cards can be applied together with EC module.

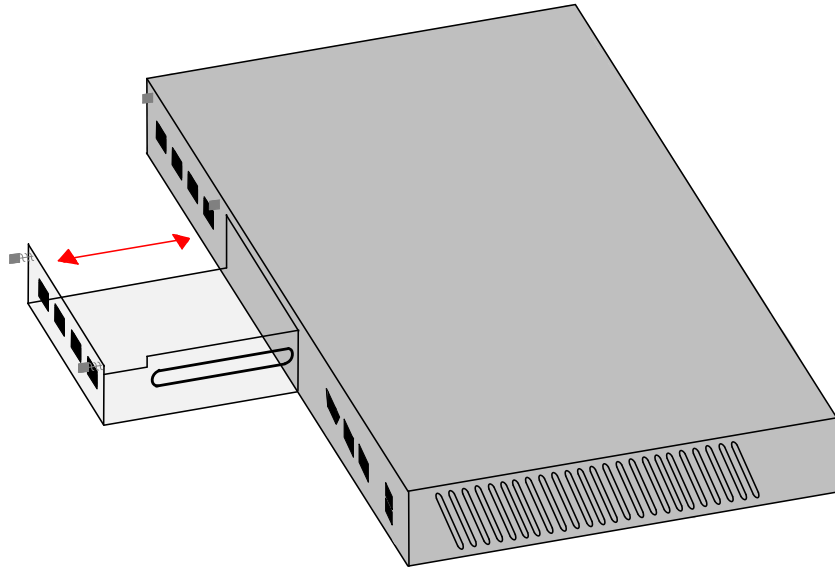
IX140 supports combination of two cards, for example:

- A(E)1610E + B(E)400E
- D(E)430E + B(E)400E
- D(E)430E + A(E)1610E
- A(E)810E + A(E)810E
- G400E + G400E

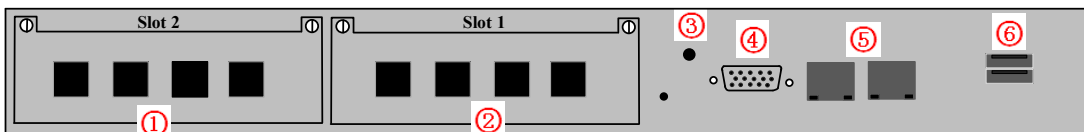
## Features

- Optional pre-loaded free open source IPPBX system
- Combination of FXS/FXO, BRI, E1/T1, GSM Interface
- PRI/SS7 to SIP gateway
- PRI/SS7/FXS/FXO/BRI signaling converter
- PRI/SS7 TDMoE gateway
- Flexible applications selection (IPPBX or firewall)
- Up to 4 simultaneous GSM calls
- Advanced dialing rules
- Blacklist
- HTTP/HTTPS & CLI (serial and SSH) for remote administration
- Phone provisioning (PnP, FTP/TFTP, DHCP option 66)
- Call detail records (CDR) and own basic billing module (ANI, DNIS, date, time call, Pinset)
- Caller ID (in idle or busy status)
- Call waiting (alternate call)
- Call Forward (by busy, don't answer or unconditional status)
- Direct call forward to voicemail
- SIP/IAX trunk & PSTN
- Firewall(Fail2ban)
- Call Parking
- Follow me
- IVR menu system
- Unlimited IVR and sub-IVR
- Mobility extension
- Music on hold creation or edition
- Music on transfer
- Ring group call
- Call Transfer (blind or by consult)
- Three-way and Five-way calling
- Unlimited conference rooms and unlimited users
- Pickup and Directed Pickup
- Pinset option
- Paging and Intercom system
- Voicemail
- Don't disturb (DND) function
- Call Recording feature
- Audio Codecs: G.711(alaw/ulaw), G.729, G.723.1, G722, iLBC, OPUS
- Video Codecs: H.261, H.263 y H.264
- UP to 1000 VoIP channels
- Connectivity
- Fax support

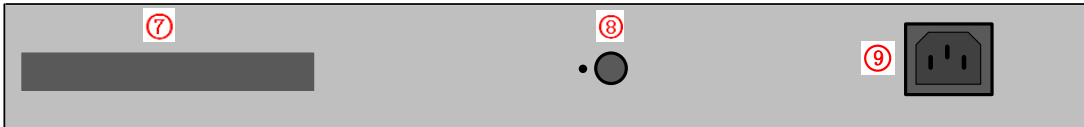
## Side View



### Front Panel



### Rear Panel



- ① ② Telephony Cards Area
- ③ Open/Close Button
- ④ VGA Interface
- ⑤ 2 10/100/1000Mbit Network Ports
- ⑥ 2 USB Ports
- ⑦ HDD
- ⑧ DC Power Interface (External and Optional)
- ⑨ AC Power Interface (Built-in and Optional)

## Specifications

IX140	
Max Analog Ports	24
Max BRI Ports	8
Max E1/T1/J1 Ports	8
Users	Unlimited
Max VoIP Trunks	Unlimited
Max Concurrent Calls	600 Concurrent Calls with G.711 Codec, 200 Concurrent Calls with G.729 Codec
Protocol	SIP (RFC3261), RFC3262 and RFC3265, IAX2 for terminals or trunks.
Transport Protocol	UDP, TCP, TLS, SRTP
Codec	G711 (alaw/ulaw), G722, G723.1, G726, G729, GSM, OPUS, ADPCM, iLBC, H261, H263, 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(R) Celeron(R) N2930
RAM	Up to 8GB DDR3L 1333
Storage	MSATA SSD and 2.5 or 3.5 inch SATA HDD
RAID	Yes (Optional)
Mini PCI-E	1
NIC	2* 10/100/1000M
UPS	Yes (Optional)
Power Supply	100-240V AC
QoS	ToS/DSCP (layer 3) and 802.1p and 802.1q (layer 2)
Redundant Power Supply	Yes (Optional)
Display	VGA
LCD Display	Yes
USB	2
Power Consumption	~7.5W (Minimum Power Dissipation)
Operating Temperature	0°C to 50 °C
Storage Temperature	-40 °C ~ 125 °C
Humidity	10 ~ 90% NON-CONDENSING
Dimension	440*300*45mm
Net Weight	5. 20Kg
Warranty	2 Years