# Aliwei EIA 20X VoIP Router

EIA20X series VoIP Gateway was researched and developed independently by Aliwei through widely incorporating multiple features of voice products in current market and in light of user's requirements. EIA20X is the bridge that converts voice and fax, in real time, between the public switched telephone network (PSTN/ISDN) and an IP network. They packet/compress voice and fax transmitted by PSTN, then transmit to Internet/Intranet as IP packet. Then reach to destination by Router. The Opposite End execute opposite course.

The EIA20X VoIP gateway maintains best voice quality under not only high bandwidth traffic but also low bandwidth traffic using the latest voice compression algorithm and enhanced QoS management features of Aliwei Technologies. Moreover, EIA20X VoIP Gateway can be used in various network environments such as leased line, ADSL, and Cable Modem networking with fixed IP and dynamic IP environments. And EIA2000 VoIP Gateway supports various network protocols such as IP-routing, bridging, PPP, NAT/PAT, and network management features such as Cisco-style, Web, etc.

EIA20X provide scalability, reliability and stability for voice over IP solutions including IP-routing services for enterprise, government and other public offices as well as VoIP carriers and telecom carriers.

## Key Features

- Answer and Disconnect Supervision
- Select specific FXO channel for an incoming SIP call according to the prefix
- Flexibility to configure disconnection (polarity reversal, current, tone)
- Trunk group support
- Public and private dial plan support
- User programmable dial plan support
- Register individual channels (and route incoming calls to individual ports) or the entire gateway once (and route calls according to above)
- Analog channel (IP-PSTN call) based on: source IP, source number, destination number
- Call Detail Trance
- Redundancy routing
- Least cost routing with external Aliwei VoIP Call Routing Server
- Robust caller ID detection
- QoS Support
- H.323 v.3 Gateway and Integrated Gatekeeper
- SIP User Agent

# Aliwei EIA 20X VoIP Router

## Technical Specifications

**Processor**   MPC852T 66MHZ
**Flash**   8M
**RAM**   32M

## Network Interface

- 1 10/100M auto-negotiation Ethernet interface
- 1 10M Ethernet interface
- 1 asynchronous port (also as Configuration port)

## Voice Interface

- Up to 32 Ports FXS Voice Channels
- Up to 32 Ports FXO Voice Channels Call can be transferred automatically to FXSO after power off)

## Protocols supported and Service IP Routing Protocols

Static and IEEE 802.1Q VLAN Routing
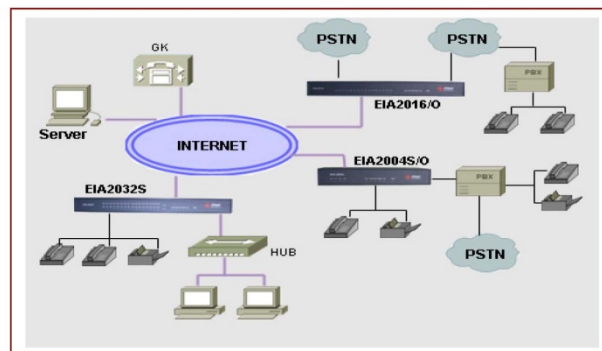
## WAN Protocols

Point-to-Point Protocol (PPP) over Ethernet for ADSL Networking (PPPPoE)

## Voice over IP Service

- ITU-T H.323 v3 VoIP Protocol with ITU-T H.235 Security Feature
- SIP protocol support compliant with IETF RFC3261 (or RFC2543)
- Supports Triple stack of H.323, SIP and MGCP
- G.723.1, G.729.A, G.711 Voice Compression
- Voice Processing Features Supports > VAD, DTMF, CNG, G.168 and T.38 G3 FAX Relay

- ITU-T H.323 Gateway, Gatekeeper Support

## Network Managements

- Standard SNMP Agent (MIB v2) Support
- Remote Management using Console, Rogin, Telnet
- Web-based Managements using HTTP Server Interface

## Security Functions

- Standard & Extended IP Access List
- Enable/Disable for Specific Protocols
- PPP User Authentication Supports
  > Password Authentication Protocol (PAP)
  > Challenge Handshake Authentication Protocol (CHAP)

## Operation & Managements

- System Performance Analysis for Process, CPU, Connection I/F
- Debugging, System Auditing, and Diagnostics Support
- System Booting and Auto-rebooting with Watchdog Features
- System Managements with Data Logging

## Other Scalability Features

- DHCP Server & Relay Functions
- Network Address Translation (NAT) Function
- Cisco Style Command Line Interface (CLI)

## Other Scalability Features

| | | | |
|---|---|---|---|
| **Power Requirement** | AC 90~264V, 50/60Hz, 15 Watt | **Dimension** | 42x215x340mm (HxWxD) |
| **Temperature** | Operating : 0 – 40 degree C | | 63.5x215x340mm (HxWxD) |
| | Storage: -10 – 60 degree C; Non-Condensing | **Weight** | 3.4KG; 6.0KG |
| **Operating Humidity** | 10% to 90% | | |