TELETRONICS INTERNATIONAL INC.

EZLOOP™
Enterprise SIP Server

EZLoop Enterprise SIP Server is a call control server with IETF Standard Protocol SIP. The server has the functions of a Registrar, a Proxy Server and a Call Router.

It can also provide NAT traversal when needed in your network environment. For the local network that EZLoop SIP Server locates, it can provide NAT traversal service (NAT).

EZLoop SIP Server is designed to work with all sorts of SIP phones on the market, it doesn't limit your choices by manufacturer nor vendors. IP telephony system will not only simplify your office space by combining your computer and phone on one cable, but will also provide you the flexibility to expand and grow your business.

Item 21-107

Features

- Offers easy administration through any web browser. Remote administration is easy.
- Able to make revisions even there are active sessions
- Provide wide range of SIP client choices
- SIP-based: Provides wide range of interoperability with SIP compliant clients, gateways, and third-party's SIP Servers
- Works flexibly with Dial Plan, NAT traversal, Authentication, and Upper/Thru Registration functions in various types of network environments.

Software Specifications

- EZLoop Enterprise SIP Server will receive REGISTER requests from either a client application or UA, and update its database appropriately. Using the registrar function, you will be able to answer calls with any client through your unique SIP-URI.
- EZLoop Enterprise SIP Server will route SIP requests from clients or other servers to the most appropriate SIP-URI address based on its register database. When a user cannot be located in the database, the Dial Plan rules can be used. If the routing resolves successfully at the proxy server, a caller can establish a call even when the final SIP-URI address is unknown to the caller.
- **Near-End NAT Traversal**
  The clients behind the same NAT as ABLAEZ Enterprise SIP Server can talk with clients behind the NAT utilizing ABLAEZ Enterprise SIP Server's Near-End NAT Traversal feature.
- **Far-End NAT Traversal**
  The clients behind other NATs can communicate with the ABLAEZ Enterprise SIP Server over the Internet utilizing ABLAEZ Enterprise SIP Server's Far-End NAT Traversal feature.
- **Dial Plan**
  You can make flexible routing rules by defining matching rules and filtering rules for headers and IP addresses in the SIP packets using regular expressions in this Dial Plan.
- **Session Management**
  You can check the status or terminate the active calls.
- **Logging**
  Logs for previous sessions can be viewed through a web browser.
- **Operating System**
  Linux Red Hat v9.0 with webmin administration interface

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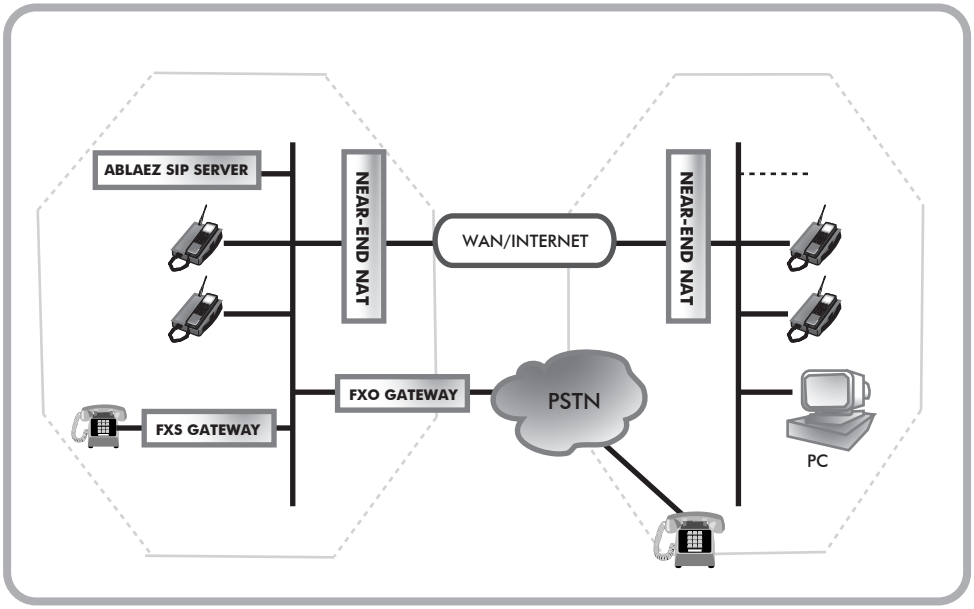
Hardware Specification

CPU	Onboard low power VIA Eden/C3 processor, 400MHz up to 1GHz
System Memory	1x168 pin DIMM max. up to 512MB -64MB SDRAM onboard (for 400MHz CPU) -128MB SDRAM onboard (for 800MHz CPU)
Chipset	VIA VT8601T + VT82C686B
BIOS	Phoenix-Award BIOS with 2Mbit Flash
SSD	CompactFlash™ Type II Socket (512 MB)
Board Unique ID	Dallas DS2401 controller
Watchdog Timer	System rest and NMI; 64 Levels, 0.5 ~ 8 / 5 ~ 80 / 50 ~ 800 / 100 ~ 1600 Seconds
Extension Interface	Mini PCI Type-III socket (for 800MHz CPU ver.)
Battery	Lithium 3V/196 mAH
Size/Weight	203mm x 146mm/ 0.32kg
Temperature	0 ~ 60deg C, operation
Operation Humidity	105 ~ 95% relative humidity, non-condensing

Interface

MIO	2 x ATA-100 IDE (1x 40-pin & 1 x 44-pin), 1 x FDD, 1 x K/B, 1 x M/S, 2 x RS-232, 1 x LPT, 1 IrDA
Ethernet	4 x Realtek RTL8139C Fast Ethernet controllers, one Gigabite LAN option
USB	2 x USB ports; USB 1.1a compliant

Application Diagram



Hardware Features

- Onboard low power VIA EBGA CPU
- Quad Fast Ethernet, one Gigabite LAN option
- 2 RS-232 COM Ports
- 2 USB Ports
- Board Unique ID
- CompactFlash for low cost SSD
- Optional Mini PCI for more feature expansions

Protocols and Performance

- **VoIP Protocol for signaling**
  -SIP (RFC3261 Standard)
- **VoIP Protocols for delivery of voice**
  -RTP, RTCP (When using NAT Traversal)
- **Routing Methods**
  -Register database or Dial Plan
- **NAT Traversal**
  -Proprietary method
- **Maximum Number of Concurrent Connections**
  -(Concurrent connections available when tested a Pentium 800MHz with 128MB of RAM in 100M Ethernet network. Connection numbers may vary depending on network condition. Not using a NAT Traversal, will increase the number of possible connections.
- **Administration**
  -Web-based