8-Port FXO H323/SIP Gateway

Overview

The LevelOne VOI-8002 is a cost-effective VoIP telephone gateway that offers high-quality voice and real-time fax data over IP networks for small and medium sized offices that want to integrate a VoIP system into an existing office phone system.

The VOI-8002 VoIP gateway is both SIP and H.323 standard compliant enabling users to make calls in both protocols simultaneously. The Gateway also includes a NAT server, DHCP for automatic network setup, PPPoE for broadband Internet access and a built-in firewall that secures the network from outside attacks and unauthorized access.

An 8 Port FXO Gateway

The LevelOne 8 port Foreign eXchange Office (FXO) VOI-8002 Gateway is a cost-effective and feature-rich analog VoIP gateway that connects telephones, lines and PBX extensions with an IP-based telephony network.

Advanced Features

With a built-in Firewall, NAT server PPPoE and DHCP capability, the VOI-8002 protects the VoIP network from outside attacks and unauthorized access, connects to any broadband Internet service provider and establishes automatic network set-up and network connectivity.

The Quality of Service feature enables users to define priority data traffic, such as VoIP data packets, to receive faster transmission rights above other data packets to ensure a high-quality telephony network.

The VOI-8002 further comes equipped with Auto-Provision support for remote management, provides the ability to make both SIP and H.323 calls simultaneously, while various voice codec and fax algorithms allows for toll-quality voice calls and real-time fax transmissions.

It also includes carrier tone generation and detection, Caller ID generation and detection and standard echo cancellation and comfort noise generation as well as DTMF relay for both outbound in inbound calls.

Easy Deployment and Configuration

VOI-8002 is easy deployed within existing telephone systems and its Web browser management interface makes it easy to configure and manage the gateway's settings.

VOI-8002

Related Products

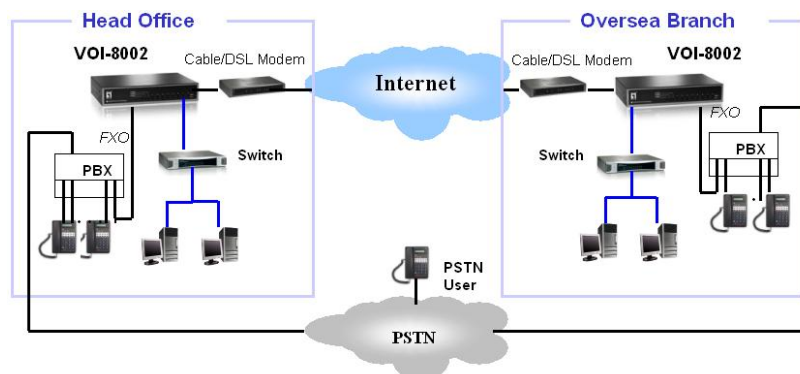|	
	VOI-8001 8-Port FXS H.323/SIP VoIP Gateway
	VOI-8003 4FXS+4FXO H.323/SIP VoIP Gateway
	VOI-7000 SIP VoIP Phone

Key Features

- Realize immediate cost-savings advantages of VoIP communication over the Internet
- Connect up to 8 telephones, lines or connect to a PBX extension lines for a VoIP telephone network
- 8-Port FXO VoIP solution
- Make Simultaneous SIP and H.323 Calls
- Register up to 4 SIP Proxy or Gatekeepers Simultaneously

- Includes a built-in Firewall, NAT server, PPPoE and DHCP Support
- Remote Manageable and upgradeable via the IP Provision System
- Configure and manage the gateway with its Web browser user-interface
- QoS for high priority VoIP Network traffic

Technical Specification

- **Connection Ports**
  - 1 x RJ-45 10/100Mbps WAN Ethernet Port
  - 3 x RJ-45 10/100Mbps LAN Ethernet Ports
  - 8 x FXO Ports
- **Voice Processing**
  - Voice CODEC
    - G.711 A-law / u-law (64kbps)
    - G.723.1 (5.3 or 6.3kbps)
    - G.726 (ADPCM 40, 32, 24, 16 kbps)
    - G.729a/G.729b (8kbps)
  - Supports T.38 FAX Relay (9.6k, 14.4k)
  - Carrier tone detection and generation
  - DTMF In/Out band relay
  - DTMF/Call progress detection and generation
  - Q.931 Fast Start
  - Supports Caller ID generation and detection
  - Supports VAD, H.225, H.245, CNG, G.168, Jitter buffer and programmable gain control
- **Voice Signaling**
  - Supports SIP & H.323 simultaneous VoIP calls
  - Supports SIP v2 Standard (RFC3261)
  - Outbound Proxy
  - STUN Server
  - Registers up to 4 servers simultaneously
  - Supports multiple dialing plan / Call hunting group
  - Adaptive Jitter Buffer function
  - Expandable by external IVR/CDR/Billing servers for value- added applications
  - Supports current drop and polarity reversal detection and generation on analog trunk interface
  - Selectable group- or sequence- PBX ring for VoIP call-in
  - IP screening table for authorized VoIP call-in
  - Flexible routing table and profile
- **Gateway Management**
  - Web Interface Management
  - Supports Auto-Provision System
  - Supports remote Gateway configuration and upgrade through by FTP/TFTP, Web UI or Auto Provision
  - Supports Call Detailed Records (CDR) function
  - WAN IP configure can be programmed by IVR via phone set
  - Built-in watchdog and auto-recovery function

- **Router Functions**
  - Static and dynamic IP from DHCP, PPPoE support
  - Build-in DHCP Server
  - Dynamic DNS Support
  - Support Network access rules (LAN to WAN & WAN to LAN)
  - Self-Protection against DoS Attacks
  - Support NAT-through function
  - Supported Protocols:
    UDP, TCP, NAT, BOOTP, TFTP, FTP, HTTP, TELNET, IEEE 802.3/ IEEE 802.3u
  - Supported Servers:
    SNMP, SNTP, HTTP, FTP, NAT, DNS, uPnP, DDNS
  - NAT function:
    Virtual Server, Port mapping, ALG, DMZ, Static routing table
  - Firewall option:
    Client filtering, URL filtering, MAC control, Drop Port scans
  - VPN Pass-through (PPTP & IPSEC Pass Through)
  - Support IP TOS (Type of Service) for VoIP
- **Hardware Spec**
  - LED Indicators
    READY, STATUS, POWER, LINE, LAN and WAN
  - Power:
    AC100V-240V, DC 12V/1.5A (Max)
  - Temperature:
    0°C to 45°C (Operation),
    -20°C to 75°C (Storage)
  - Humidity:
    Up to 90% non-condensing
- **EMI and Safety**
  FCC, CE Mark

Product Diagram

Ordering Information

- VOI-8002: 8-Port FXO H.323/SIP Gateway

www.level1.com