DataSheet_VOI-4100

SIP 4FXS VoIP Gateway

LevelOne's VOI-4100 is a highly reliable analog Voice over IP device which is designed for SIP protocol compliance to provide high-quality telephone solutions using your existing broadband connections.

With the advanced technology, the VOI-4100 transforms toll quality voice data over IP networks while seamlessly connecting to your analog phone system. Regarding voice codec, VOI-4100 supports voice compression standards such as G.711, G.723, G.729 A/B and also G.168, Echo Cancellation. These functions minimize bandwidth requirements for voice transmission while still providing high quality voice reproduction. Furthermore, the device also utilizes FAX protocols T.38 to meet different VoIP application demands.

VOI-4100 comes with 4 FXS interfaces which allow users to plan their connections direct phone-lines to phones or facsimile facilities. With the built-in web server, VOI-4100 is easy to setup and install with minimum configuration by Web-based configuration tools. Administrators can monitor device/network status or maintance service through a general Internet browser. To keep up with future technology, software download and upgrades are easily done via network with our built-in TFTP and flash memory.

VOI-4100 is the ideal VoIP solution specifically targeted at SOHO users or small and midium enterprise to reduce phone charges and create desired flexibility for users to enjoy the communication freedom.

VOI-4100

Key Features

- 4 x FXS RJ-11 voice ports
- 2 x10/100 Mbps RJ-45 ports: 1xWAN; 1xLAN
- Supports SIP v2.0 (RFC3261) voice protocol
- Supports G.723.1 (6.3k/ 5.3k), G.711(A-law/ μ -law) and G.729A/B Voice Codec

- Supports G.168 Echo cancellation
- Supports DTMF detection/Generation
- Supports CNG, VAD voice processing
- Built-in HTTP server for setting through web browser
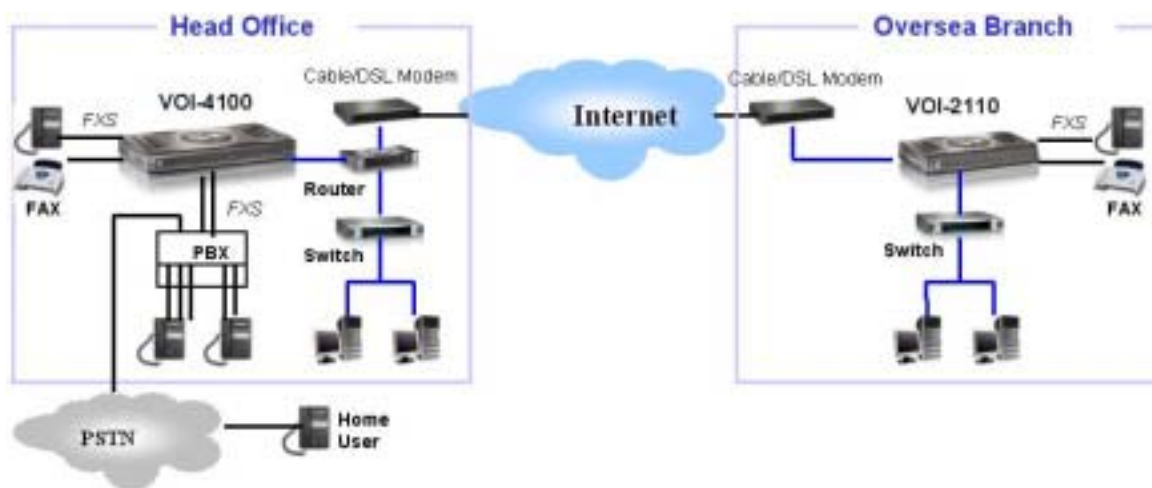- Remote software upgrade through TFTP

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Technical Specification

- **Network Interface**
  2 x 10/100BaseTX RJ-45 ports for 1LAN, 1WAN

- **Telephone Interface**
  4 x FXS RJ-11 phone port connecting to regular phone

- **Control Processor**
  CPU: MIPS-X5 unified RISC and DSP core
  RAM: 384KB on-chip RAM
  Flash Memory: 2MB

- **VoIP Standard**
  SIP v2.0 (RFC 3261)

- **Voice CODEC**
  G.711 (A-law/µ-law), G.723.1 (6.3k/ 5.3k), G.729 A/B

- **Voice Processing**
  Comfort Noise Generation (CNG)
  Voice Activity Detection (VAD)
  DTMF Detection/ Generation
  User Programmable Call Progress Detection/ Generation

- **Voice Quality**
  G.168, hybrid echo cancellation (16 ms),
  Dynamic jitter buffers

- **Management Tools**
  HTTP Server
  TFTP and flash memory for remote software download and upgrade

- **LEDs**
  Power
  LAN
  Phone

- **Power input**
  AC-to-DC power adapter
  12VDC, 100-240VAC, 50/60 Hz

- **Temperature**
  Operating: 0 ~50 (32 ~ 122)
  Storage: -10 ~60 (14 ~ 140)

- **Humidity**
  Operating: 10% ~ 95% (non-condensing)

- **Dimension**
  115mm(L) * 85mm(W) *30mm(H)

- **EMI and Safety**
  FCC Part 15, CE

Product Diagram

Ordering Information

- VOI-4100: SIP 4 FXS VoIP Gateway