

# DataSheet\_VOI-2100

## SIP 1FXS+1FXO IP-Sharing VoIP Gateway

**LevelOne's** VOI-2100 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-2100 transforms toll quality voice data over IP networks while seamlessly connecting to your analog phone system. Regarding voice codec, VOI-2100 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.

VOI-2100 comes with 1FXS and 1FXO interfaces which allow users to plan their connections, one direct phone-lines to phone or fax machines and one connection to PBX facilities or local PSTN. The integrated IP-sharing router simplifies the network connections. With the built-in web server, VOI-2100 is easy to setup and install with minimum configuration by Web-based configuration tools. Administrators can monitor device/network status or maintenance 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-2100 is the ideal VoIP solution specifically targeted at SOHO users or small and medium enterprise to reduce phone charges and create desired flexibility for users to enjoy the communication freedom.



**VOI-2100**

### Key Features

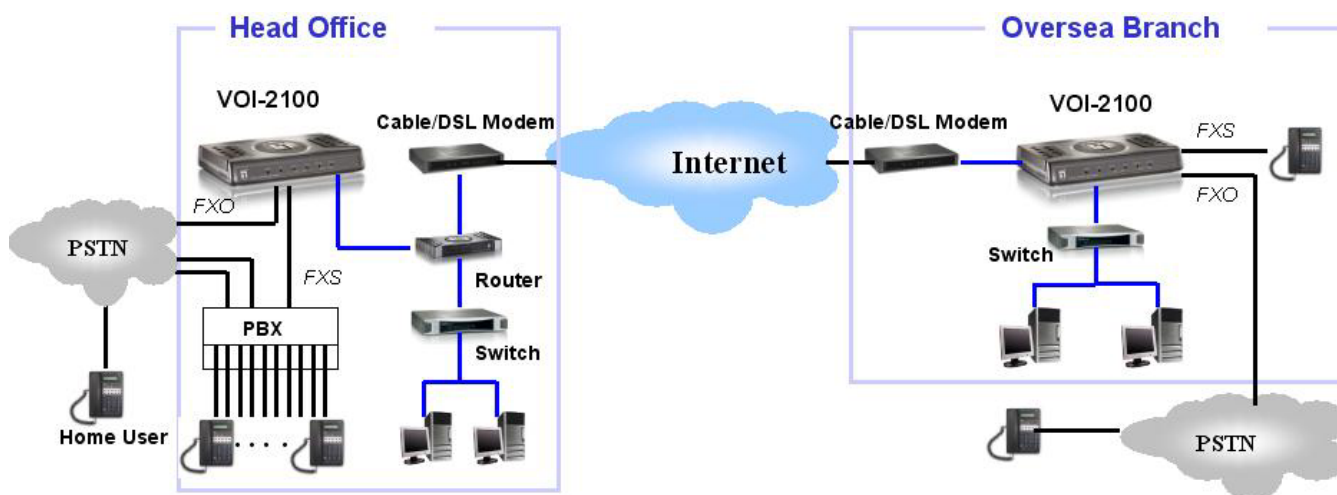
- 1FXS+ 1FXO RJ-11 voice ports
- 2 x10/100 Mbps RJ-45 ports: 1xWAN; 1xLAN
- Integrated IP-Sharing router
- Supports SIP v2.0 (RFC3261) voice protocol
- Supports G.723.1 (6.3k/ 5.3k), G.711(A-law/ $\mu$ -law) and G.729A/B Voice Codec
- Supports G.168 Echo cancellation and Voice Activity Detection (VAD)
- Supports DTMF tone detection/Generation
- Built-in Web server for we-based configuration
- Remote software upgrade through TFTP

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## Technical Specification

- **Network Interface**
  - 1 x 10/100BaseTX RJ-45 LAN port
  - 1 x 10/100BaseTX RJ-45 WAN port
- **Telephone Interface**
  - 1 x FXS RJ-11 phone port connecting to regular phone
  - 1 x FXO RJ-11 phone port connecting to regular phone
- **Control Processor**
  - CPU: MIPS-X5 unified RISC and DSP core
  - 384K bytes on-chip RAM
  - 16K byte unified cache
  - Flash Memory: 2MB
- **Voice Protocol**
  - SIP v2.0 (RFC 3261)
- **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
- **Voice Codecs**
  - G.711 (A-law/ $\mu$ -law), G.723.1 (6.3k/ 5.3k), G.729 A/B
- **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°C~50°C (32°F ~ 122°F)
  - Storage: -10°C~60°C (14°F ~ 140°F)
- **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-2100: SIP 1FXS+1FXO IP-Sharing VoIP Gateway