

# Datasheet\_VOI-2000



## H.323 2FXS VoIP Gateway

**LevelOne's** VOI-2000 is a 2-FXS port VoIP telephone gateway which is the most cost-effective VoIP solution and offers high quality voice and real-time fax data over IP networks.

VOI-2000 adaptes H.323 protocol to provide advanced Internet telephony solutions and ensure compatibility with most popular VoIP equipment. For bandwidth management, this device offers Voice Activity Detection(VAD) that releases unused call bandwidths for data traffic while also featuring Comfort Noise Generation(CNG) function at the receiving terminal so the user knows the line has not dropped. Concerning voice codec, VOI-2000 also supports voice compression standards such as G.711, G.723 and G.729 A/B. These standards minimize the bandwidth requirement for voice transmission while still providing high quality voice reproduction. This system supports G.168, Echo Cancellation which is located in the 4-wire portion of the circuit used for echo reduction by digitally subtracting an estimated echo from the circuit echo.

Each of he two FXS interface allows VOI-2000 to connect directly to a phone, fax machine or PBX facility. VOI-2000 is friendly to setup and install with minimum configuration by Web-based management interface, console port or Telnet. Administrators can monitor device/network status or maintance service through a general Internet browser or telnet session. To keep up with future technology, software download and upgrades are easily done via network with our built-in TFTP and flash memory.

VOI-2000 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-2000**

## Key Features

- Following H.323 version 3 standard
- Built-in 2 FXS interfaces
- Supports G.723.1 (6.3k/ 5.3k), G.711(A-law/U-law), G.729 A/B Voice Codec
- T.38 real-time fax relay for interoperability among other VoIP facilities.
- PSTN fail-over automatically backup
- Supports VAD and CNG bandwidth control
- Supports G.168 Echo cancellation
- Remote software upgrade through TFTP
- Configuration and management using Web-based Interface/ Console port/Telnet
- Cost-effective Solution

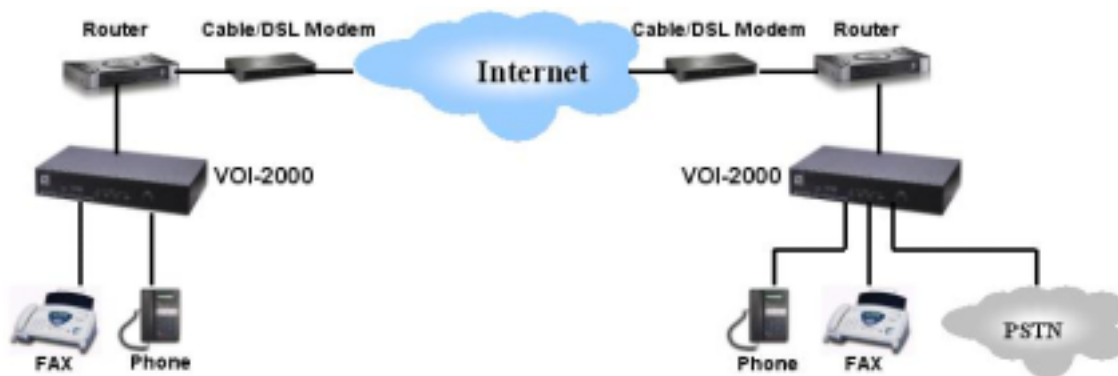
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## Technical Specification

- **Network Interface**  
1 x 10/100 Mbps RJ-45 port (Auto-Negotiation)
- **Telephone Interface**  
2 x FXS RJ-11 phone ports  
1 x Line RJ-11 for PSTN backup
- **VoIP Standard**  
H.323 v3.0
- **Protocols**  
H.323, TFTP, HTTP, DHCP, DDNS, PPPoE protocols
- **Voice CODEC**  
G.711 (A-law/ $\mu$ -law), G.723.1 (6.3k/ 5.3k), G.729 A/B
- **FAX over IP**  
T.30 and T.38  
Real-Time FAX over IP
- **Voice Processing**  
Comfort Noise Generation (CNG)  
Voice Activity Detection (VAD)  
Gain Control  
G.168, adaptive echo cancellation  
DTMF Generation/ Detection  
Call Progress Detection
- **Management Tools**  
Web-based management interface  
Telnet-based interface  
TFTP and flash memory for remote software download and upgrade
- **LEDs**  
Power x 1  
System x 1  
LAN: ACT/LINK, 100 Mbps, CoL  
LINE x 2
- **Power input**  
External Power 12VDC , 2A
- **Temperature**  
Operating: 0 ~40  
Storage: -10 ~65
- **Humidity**  
Operating: 5% ~ 95%
- **Dimension**  
240.6mm(L) \* 134mm(W) \*45mm(H)
- **Weight**  
1.9 Kgs
- **EMI and Safety**  
FCC Class A, CE

## Product Diagram



## Ordering Information

- VOI-2000: H.323 2FXS VOIP Gateway