Datasheet_VOI-4000

H.323 4FXS VoIP Gateway

LevelOne's VOI-4000 is a 4-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-4000 uses the H.323 protocol to provide the advanced Internet telephony solutions and to ensure compatibility with most popular VoIP equipment. For bandwidth management, the device offers Voice Activity Detection(VAD) that releases unused call bandwidth for data traffic while also featuring Comfort Noise Generation(CNG) function at the receiving terminal so the user knows the line has not dropped.   Regarding voice codec, VOI-4000 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.30, T.38 to meet different VoIP application demands.

Each of the four FXS interface allows VOI-4000 to connect directly to a phone, fax machine or PBX facility. VOI-4000 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-4000 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-4000

Key Features

- Following H.323 version 3 standard
- Built-in 4 channels of real-time voice and fax
- Supports G.723.1 (6.3k/ 5.3k), G.711(A-law/ μ-law), G.729 A/B Voice Codec
- T.38 real-time fax relay for interoperability among other VoIP facilities.
- Supports QoS for VoIP packets

- 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
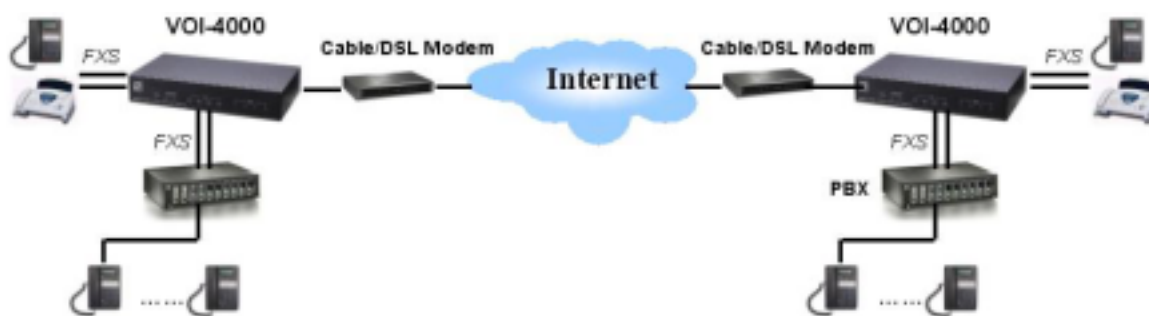- Cost-effective Solution

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Technical Specification

- **Network Interface**
  1 x 10/100 Mbps RJ-45 port (Auto-Negotiation)

- **Telephone Interface**
  4 x FXS RJ-11 phone ports

- **VoIP Standard**
  H.323 v3.0

- **Protocols**
  H.323, TFTP, HTTP, DHCP, DDNS, PPPoE protocols

- **Voice CODEC**
  G.711 (A-law/μ-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),
  Hybrid echo cancellation G.168 (16 ms),
  DTMF Generation/ Detection,
  Call Progress Detection, Gain Control

- **Management Tools**
  Web-based management interface
  Telnet–based interface
  Console port supported
  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 4

- **Power input**
  External Power 12VDC, 2A

- **Temperature**
  Operating: 0°C to 50°C (32 to 122 °F)
  Storage: -10°C to 60°C (14 to 140 °F)

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

- **Dimension**
  240.6mm(L) * 134mm(W) *45mm(H)

- **EMI and Safety**
  FCC part 15 A, CE

Product Diagram

Ordering Information

- VOI-4000: H.323 4 FXS VOIP Gateway