

Datasheet_VOI-8000



H.323 Modularized VoIP Gateway

LevelOne's VOI-8000 is a modularized VoIP telephone gateway which equipped with two expansion slots to give users more flexibility on port number and interface selections. Up to 8 connections can be integrated to provide the most cost-effective VoIP solution while also offering toll quality voice and real-time fax data over IP networks.

VOI-8000 adaptes the H.323 and H.450 protocol stack 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.

Two optional modules are supported, MDU-8000S and MDU-8000O, each with 4 FXS interfaces and 4 FXO interfaces. VOI-8000 is user-friendly to setup and install with minimum configuration by Web-based management interface, console port or Telnet. With the embedded DDNS server, voice communication is easy to establish in a dynamic IP environment. To keep up with future technology, software download and upgrades are easily done via network with our built-in TFTP and flash memory.

VOI-8000 is the ideal VoIP solution specifically targeted at enterprise-level VoIP applications for toll cost savings. This unit definitely makes a very attractive investment for corporations of all sizes.



VOI-8000

Key Features

- H.323 version 3 standard
- Modularised design to accommodate 2 modules including MDU-8000O (4-port FXO) and MDU-8000S (4-port FXS)
- Supports G.723.1 (6.3k/ 5.3k), G.711(A-law/ μ -law), G.729 A/B Voice Codec
- Supports QoS for VoIP packets
- T.38 real-time fax relay for interoperability among other VoIP facilities
- Supports G.168 Echo cancellation
- Remote software upgrade through TFTP
- Configuration and management using Web-based Interface/ Console port/Telnet

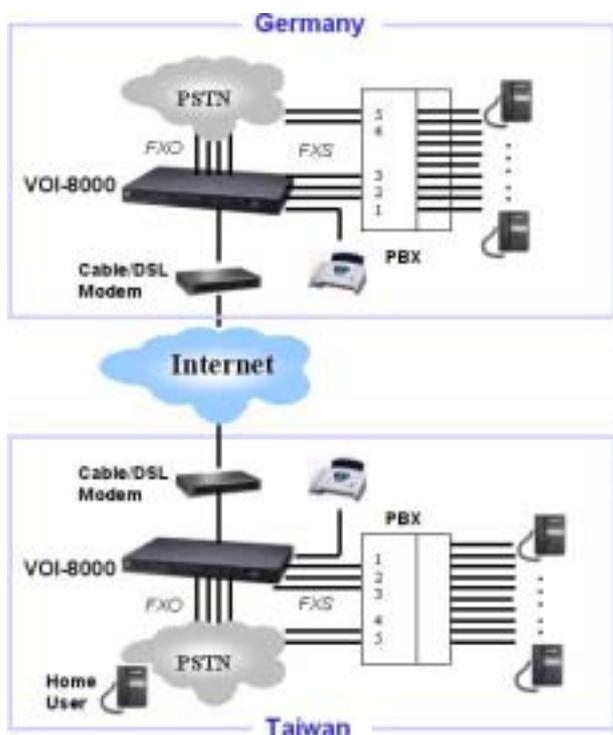
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Technical Specification

- **Network Interface**
1 x 10/100 Mbps RJ-45 port (Auto-Negotiation)
- **Telephone Interface(w/ Optional Module)**
MDU-8000S: 4 x FXS RJ-11 phone ports
MDU-8000O: 4 x FXO 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
- **Power input**
Internal Power 12V DC, 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**
440mm(L) * 245mm(W) *44mm(H)
- **EMI and Safety**
FCC part 15 A, CE

Product Diagram



VOI-8000 Diagram

Module Specification

Model	MDU-8000O	MDU-8000S
Signalling	Loop Start/ DTMF	
No of Channels	4	
Interface Connectors	4 x RJ-11 2-pin modular jacks	
Insertion Loss	2 dB nominal (Adjustable)	
Frequency Response	300Hz ~ 3400Hz	
Return Loss	≥ 18 dB	
Line Impedance	600Ω, 900Ω	
Input Level Adjustment	-6 dB ~ +6 dB	
Output Attenuation	0 dB ~ 13 dB	
Longitudinal Balance	≥ 45 dB	
Loop Current	N/A	25mA Nominal
Ring Voltage	N/A	40Vrms Nominal
Ring Tone	N/A	16.67Hz (default), 25Hz or 50Hz

Ordering Information

- VOI-8000: H.323 Modularized VOIP Gateway
- MDU-8000S: H.323 4-port FXS module
- MDU-8000O: H.323 4-port FXO module

