

# VI-5100 series

## Voice over IP FXS Gateway

### Description

VI-5102/4 provides Voice and FAX over IP services for Internet Telephony Service Providers (ITSP) and Office / SOHO IP-PBX applications. It also supports phone-to-phone call and PC-to-Phone call if the soft phone or NetMeeting is installed in the PC.

The VI-5100 series provides up to 4 FXS ports for PBX trunk line or telephone set connection and one 10BaseT port connecting to IP-network. The various voice codec i.e. G.711A/u-Law, G.723.1, G.729 and G.729A with Dynamic Jitter Buffer and Bad frame interpolation allow a toll voice quality and FAX services under managed network i.e. VPN or Public Internet Network. VI-5102/4 implements H.323 v3 protocol with H.450 services. It can easily connect to the H.323 compatible Gatekeeper. TELNET and COM port provide remote and local configuration, Management and software download. By using this feature, ITSP/ISP provides centralized control, management and software upgrade to remote site gateway.

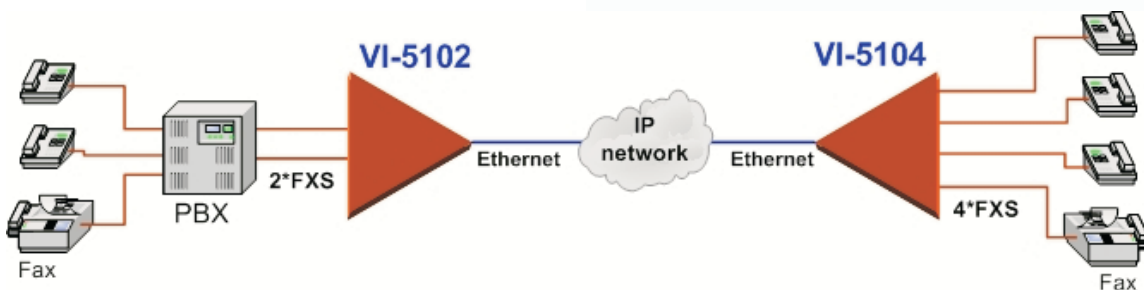


### Benefits

- ✓ Easy access to IP from phone set or PBX
- ✓ Cost Saving - Telephone call from VPN or public Internet
- ✓ Follows the existing telephone call dial plan
- ✓ Easy interface to ADSL/Cable Modem or Leased line equipment

### Applications

- ✓ ISP/ITSP (Internet Telephony Service Provider)
- ✓ Multi-nation enterprise communication
- ✓ SOHO Telephony
- ✓ IP-PBX with office telephony services
- ✓ Telephone /PBX call via IP network
- ✓ FAX over IP (FoIP) device



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### Product Specification

#### Interfaces

- One 10Mbps Ethernet RJ-45 port for VI-5102 only
- Two 10/100Base-T Ethernet RJ-45 ports for VI-5102A/5104A
- One DB-9 RS-232 COM port
- 2/4 RJ-11 Telephone port (FXS)
- DC 12V input (Provide external AC100-240Vac input adaptor)

#### General Features

- ITU-T H.323 v3 / SIP compliance (optional)
- Support H.235 security function (optional)
- Automatically Gatekeeper Discovery
- Alternate Gatekeeper selection
- Provide Peer-to-Peer Mode (Non Gatekeeper needed)
- Line polarity reversal generation
- Provide call progress tone
- PPPoE (option)
- Behind NAT router or IP sharing device
- E.164 Dial Plan
- DTMF detection/generation
- TFTP/FTP software upgrade
- Remote configuration/reset
- LED indication for system status
- MS-NetMeeting v3.0 compatible
- Support Fix IP and DHCP
- Support QOS by setting TOS (Type Of Service) parameters of VoIP packet

#### FAX Support

- Automatically FAX detection
- Group 3 Fax relay at 2.4 - 14.4 kbps
- Support T.38 protocol

#### Audio Features

- Codec -- G.711 A/u-Law, G.723.1, G.729A, G.729
- VAD (Voice Activity Detection) , CNG (Comfort Noise Generation)



- G.168/165-compliant adaptive echo cancellation
- Dynamic Jitter Buffer
- Bad Frame Interpolation
- Completed voice band signaling support
- Generate Caller ID (DTMF or FSK)
- Provide Inband or Outband DTMF generation/detection
- Provide H.450 services (Hold, Transfer, Forward)
- Gain/Attenuation Settings
- Provide Progress Tone: Dial tone, busy tone, call-holding tone, 2nd Dial tone and ring-back tone

#### FXS interface

- 2-wire loop start
- Programmable AC impedance, Feeding voltage, Ring Voltage, Ring Cadence, Loop current and call progress tone
- ON-Hook Voltage : 48Vdc
- Ring Voltage : 50 V RMS
- Loop Current : Constant 23mA

#### LED indicator for system status

- TEL1-TEL4: LED indicator for Telephone port status
- POWER: Power ON indication
- LINK / ACT: Link and Active status
- 10/100: 10/100 Mbps status (for VI-5102A/5104A only)
- STATUS: registering to Gatekeeper status
- READY: operation status

#### Management Features

- Two easy ways for system configuration
- Console port
- TELNET

#### Certification

- UL, CE, FCC, VCCI, BSMI

#### Chassis

##### For VI-5102

- Dimension : 165mm(W) x 25mm(H) x 100mm(D)
- Weight(unit): 0.7 kg

##### For VI-5102A/5104A

- Dimension: 223mm(W) x 35mm(H) x 152mm(D)
- Weight (unit): 1.5 kg