

SPECIFICATION

| | | | | |
|-------------------------|---|------------------------------|--|-----------------|
| Model | VIP-200 | VIP-400 | VIP-000 | VIP-T1/E1 |
| Hardware | | | | |
| Ports | | | | |
| LAN | 1 (10Base-T/100Base-TX, Auto-Negotiation) | | | |
| Voice | 2 RJ-11 (FXS) | 4 RJ-11 (2 FXS, 2 FXO) | Two open slots (Up to 8 RJ-11) | 1 RJ-48 8-pin |
| Console | 1 RS-232 DB-9 female | | | |
| LED Indicators | System: 2, Power, CPU LAN: 4, Link, ACT, Speed, Collision, Voice: 1 Ringing/Active per channel, 2 module LED for VIP-000 | | System: 2, Power, CPU LAN: 4, ACT, 100, LNK, COL Voice: 4, LOS, LOF, BLUE, YEL | |
| Power Requirement | 12V DC, 2.5Amax. | | 100~240VAC 50/60Hz | |
| Dimension (LxWxH, mm) | 150 x 220x 44 , Desktop size | | 440 x 245 x 44 | |
| Environmental | Temperature: 0~50 degree C (operating) Humidity: up to 90% (non-condensing) | | | |
| Emission | EMI: FCC part 15, CE / PTE FCC part 68 | | | |
| Software | | | | |
| Voice CODEC support * | G.711 (64K), G.723.1 (5.3K/6.3K), G.729A/B (8K), G.726 (16K) | | | |
| Voice processing | VAD (Voice Active Detection), DTMF detection/ generation, G.168 echo cancellation (16mSec.), CNG (Comfort noise generation), CP Tone Detection (Call progress detection), Gain Control | | | |
| Fax support | T.30 Group 3 Modulation formats: V.21, V.27ter, V.29, V.17 Real-time Fax over IP T.38 Fax relay | | | |
| H.323 Protocol Stack | RAS sub-stack for Terminals and Gatekeepers (table 19/H.255.0) H.245 sub-stack Q.931 sub-stack (table 4/H.255.0) H.323 version 3 compliant | | | |
| SIP Support | N/A | | Yes | |
| Simultaneous connection | 2/4/8/24/32 channels voice/fax | | | |
| Management | RS-232 Console /Telnet /HTTP | | | |
| Voice Interface | FXS | FXO | E&M | T1/E1 |
| Ports type | RJ 11 2-pin modular jack | | RJ45 8-pin | RJ48 8-pin |
| Line Impedance | 600ohm / 900 ohm Complex line impedance | | 600 ohm | 100 ohm nominal |
| Insertion Loss | 2db nominal (adjustable) | | | |
| Frequency | 300Hz ~ 3400Hz (+/- 2dB w.r.t. 1004Hz.) | | | |
| Return loss | >= 18dB | | | |
| Input Level Adjustment | -6dB ~ +6dB | | | |
| Output Attenuation | 0dB ~ 13dB | | | |
| Loop Current | N/A | 25mA nominal | N/A | N/A |
| Ring Voltage | N/A | 40V rms nominal | N/A | N/A |
| Ring Tone | N/A | 16.67Hz, 20Hz, 25Hz, 50Hz | N/A | N/A |

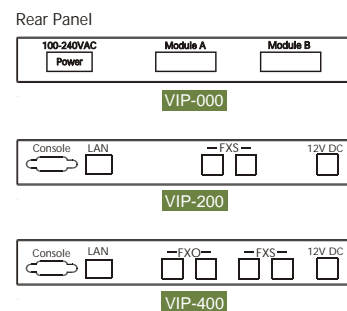
* Note: The 'Kbits' take in Voice CODEC doesn't represent the Internet bandwidth take. The actual bandwidth take may vary in your talks.

Ordering Information

- VIP-200 2-port RJ-11 Internet Telephony Gateway (2 FXS)
- VIP-400 4-port RJ-11 Internet Telephony Gateway (2 FXS, 2 FXO)
- VIP-000 2-slot Internet Telephony Gateway
- VIP-T1 Internet Telephony Gateway with T1 trunk
- VIP-E1 Internet Telephony Gateway with E1 trunk

Available modules for VIP-000

- VIP-FXS 4-port RJ-11 FXS module
- VIP-FXO 4-port RJ-11 FXO module
- VIP-E&M 4-port Type V, 4wire E&M module for VIP-000(RJ-45)



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02-02 C-VOIP-5



Internet Telephony Gateway

2/4/8/24/32-port Voice over IP



Make calls through Internet now is an ideal way to ease your phone fee for your international bussiness. Use of H.323, H.450 and SIP standard protocol stack, also the most popular CODEC, G.711, G.723, G.726 and G.729, the VoIP products should brings your voice over the Internet easily and efficiently.

The range of PLANET Internet Telephony Gateway includes the SOHO range 2/4-port products, 8-port modular one and T1/E1 trunk models for the middle size enterprise.

Equipped with two FXS interface, the VIP-200 is suitable for home or small bussiness users that give the connectivity to two phone-lines either to phone-set, fax machine or your local PBX(out-line).

VIP-400 is equipped with two FXS interfaces and two FXO interfaces which offer the combination of two direct phone-lines to either phone-set or fax machine, and two ports to your PBX system or local PSTN.

To give the customer more flexibility on port number and interface choices, PLANET's VIP-000 supports two expansion slots for choice of 4 ports FXO, 4 port FXS and 4 port E&M modules.

For needing of more voice over IP conversation, PLANET's VIP-T1 and VIP-E1 are highly integrated versatile T1/E1 VoIP gateway for providing 24 or 32 VoIP calls at the same time.

The H.323 compatibility helps the VIP gateway cooperate with any popular H.323 applications or gateways in the marketing like Windows NetMeetings, WebPhone, etc. While ITU G.711, G.723, G.726 and G.729 voice CODEC and compression also helps it to compatible with the world-famous Internet Telephony System like Cisco, RADVision, etc.

Furthermore, do not need a pro for this system. All PLANET's VoIP gateway also supports both Web and Console/Telnet management; this should ease the setup and your management.



FEATURES

- Standard Compliance**
Supports G.729AB, G.711, G.723.1, G.726 for the most popular Internet Telephony Gateway services in the market
- Easy Setup**
Web browser plus Telnet or RS-232 Console port for easy setup and management
- H.323 protocol stack Compliant**
H.323 allows compatibility with dozens of Internet telephony applications including Microsoft NetMeeting, NetSpeak, WebPhone and many more.
- DNS call support**
Users now may place calls with domain name, this will bring great convenience to dial-up network environment, such as network equipped with built-in DDNS client routers (Planet's broadband Routers XRT-101A, XRT-401A, and XRT-711A.
- PPPoE, DHCP, DDNS client support**
With these built-in agents, xDSL/Cable users now may utilize dynamic IP address working with VIP series. (PPPoE, DHCP, DDNS clients will be supported in the upcoming firmware release.)
- IVR**
Allow the record and playback of voice greeting messages, to guide caller to make the 2nd dialing.



Hints :

- **Codec** : Codec is a technology to code analog voice to digital data and then decode.
- **DSP**: Digital Signal Processor. In telecommunication, a device that encodes or decodes a signal. For example, telephone companies use codecs to convert binary signals transmitted on their digital networks to analog signals converted on their analogue networks.
- **DDNS**: The Dynamic DNS service allows you to associate a dynamic IP address to a static hostname, i.e. allowing your computer to be more easily accessed from various locations on the Internet. There are many dynamic DNS service providers offering this service for free to the Internet community.
- **IVR**: Interactive Voice Response. A telephony technology in which someone uses a touch-tone telephone to interact with.

Requirement to Install PLANET VoIP gateway:

The VoIP gateway of PLANET is a standard H.323 Voice Gateway, that can direct attach to the Internet to receiving a calls from any H.323 device or having the calls to any H.323 gateways.

The requirements are the followings:

1. An fixed IP address for the gateway
2. A router with at least 40Kbps bandwidth (for 2-channel model).

In some case, you may require a stricter environment for above two points. The router that VoIP gateway used to connect to the Internet need to think of two more things:

1. The router should not block the TCP/IP voice packets from/to your VoIP gateway, if the router is a NAT Router or with firewall.
2. Use of dynamic IP address (both/either the router and/or the VoIP gateway) also need to know that, either your router or the VoIP gateway should support dynamic DNS login once it powered on. So that the Internet Users can reach you via the Domain Name you subscribed.

Applications

The key benefit of install the VoIP to your environments are you can make calls through your customers, branches are in foreign countries or a place that waste lots of telephone fee.

The Voice Gateway supports the following applications:

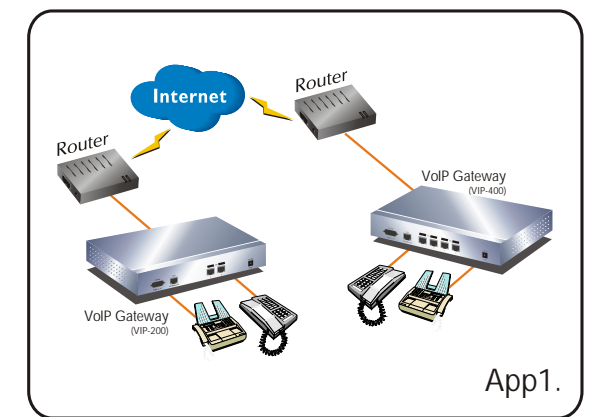
1. **Company to Company**
Make calls / Fax all through Internet (not through local PSTN) Right for companies with lots of branches in foreign countries.
2. **Company to local PSTN**
Suitable for some companies provides Internet Calls. With the Voice Gateway connect to local PSTN, you can provide your staff abroad make calls home though they are far away.
3. **Calls to your relatives or friends**
The 2/4-port models with support for DDNS now offer the cost effective way to make calls to your friends/relatives with just a pair of the VoIP box through your already existed Internet path like ADSL or Cable.

App1. Phone call from Headquarters to Branches via the Internet

The telephones can directly connect to the FXS port(s) on VIP-200/400 or VIP-000 and direct Internet telephone Calls can be made.

Pick up your phone and click the branch numbers, you are then free to talk with branch offices or any H.323 Gateway via the Internet.

Fax is also available if you connect a fax machine to its FXS port. Send FAX through Internet is also possible.

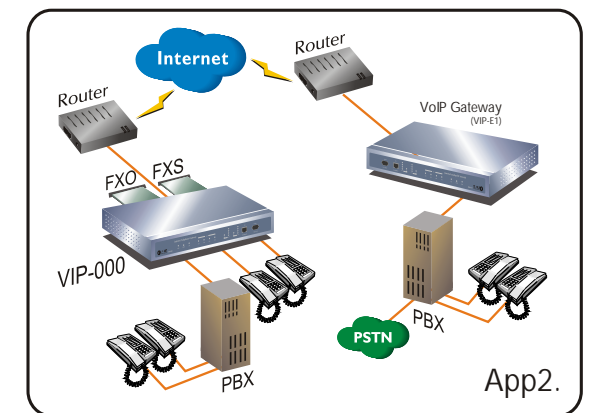


App2. Internal, external phone call from Headquarters (HQ) to Branches, or multiple point calls via the internet

2 or up to 8 extension-lines in a PBX can directly connect to the FXO ports of VIP-400/VIP-000 (HQ). Then all the extension phones in your HQ can have an Internet call to branches through those extension lines.

Or alternatively branch offices can call back to headquarters, and then make calls to standard phone systems through the PSTN.

Once the Voice Gateway connects to the extension line of your PBX, the calls from your branches will soon act as like an internal calls in your company though they are far away!



Call to Planet

Users now may utilize any Internet-ready PC equipped with H323 compliant applications like MS NetMeeting to experience the power of our VIP series.

In NetMeeting, please assign the H323 gateway to the IP of our VIP-000 (vip.planet.com.tw), and dial " 0 " plus the extension number of your sales representative, for example, " 0201 " Furthermore, if there is existing device supports T.38 Fax in your hand, (e.g. VIP series + FAX machine), we also accept number " 1 " for any T.38 FAX from Internet.

Please call us and experience the convenience!