

SPECIFICATION

Model	VP-200	VP-400	VP-600	VP-T1E1
Ports	LAN	1 10/100Base-TX (Auto-Negotiation)		
	Voice	2 RJ-11 (FXS)	4 RJ-11 (2 FXS, 2 FXO)	Two open slots (RJ-11/RJ-45)
	Console	1 RS-232C DB-9 female		
LED Indicators	System 2, Power, CPU LAN 4, Link, ACT, Speed, Collision Voice 1 (Ring/Active per channel, 2 module LED for VP-600)		System 2, Power, CPU LAN 4, ACT, BR, LINK, COL Voice 4, LOS, LPT, BLINK, VS	
Power Requirement	12V DC, 2.5A max.		100-240VAC, 50/60Hz	
Dimension (LxWxH, mm)	150 x 225 x 44 (stackable)		180 x 225 x 44	
Environmental	Temperature: 0-50 degree C (operating) Humidity: up to 90% (non-condensing)			
Emissions	EMC FCC part 15, CE / PTT FCC part 19			
Software				
Voice CODEC support*	G.711 (G.711), G.723.1 (G.723.1), G.729AB (G.729), G.728 (G.728)			
Voice processing	VAD (Voice Active Detection), DTMF detection/generation, Q.931 echo cancellation (in-line), CHG (Call hold noise generation), CP Tone Detection (Call progress detection), Gain Control			
Fax support	T.30 Group 3 Modulation Formats: V.21, V.21bis, V.29, V.17 Real-time Fax over IP T.30 Fax relay			
H.323 Protocol Stack	RAS sub-stack (for Terminals and Gatekeepers) (also H.245.0) H.245 sub-stack Q.931 sub-stack (also H.245.0) H.323 version 3 compliant			
SP Support	N/A			Yes
Conspicuous connections	24MS/AD2 channels, voice/fax			
Management	RS-232C Console/Telnet/HTTP			
Voice Interface				
Port type	FXS	FXO	ESM	T1E1
Port type	RJ-11 2-pin modular jack	RJ-45 8-pin	RJ-45 8-pin	RJ-45 8-pin
Line impedance	300ohm, 500 ohm Couples line impedance	600 ohm	600 ohm	100 ohm nominal
Indicator/Lens	2ohm nominal (adjustable)	-	-	-
Frequency	300Hz - 3400Hz (+/- 3dB @ +/- 100Hz)	-	-	-
Power loss	>= 90dB	-	-	-
Input Level Adjustment	-6dB - +6dB	-	-	-
Output Attenuation	0dB - +30dB	-	-	-
Loop Current	N/A	25mA nominal	N/A	N/A
Ring Voltage	N/A	40V nominal	N/A	N/A
Ring Tone	N/A	13.0Hz, 30Hz, 25Hz, 50Hz	N/A	N/A

* Note: The table lists in Voice CODEC doesn't represent the Internet bandwidth limit. The actual bandwidth limit may vary in your link.

Ordering Information

- VP-200 2-port RA-11 Internet Telephony Gateway (2 FXS)
 - VP-400 4-port RA-11 Internet Telephony Gateway (2 FXS, 2 FXO)
 - VP-600 2-port Internet Telephony Gateway
 - VP-T1 Internet Telephony Gateway with T1 trunk
 - VP-E1 Internet Telephony Gateway with E1 trunk
- Available modules for VP-600
- VP-FXS 4-port RA-11 FXS module
 - VP-FXO 4-port RA-11 FXO module
 - VP-ESM 4-port Type V Active ESM module for VP-600(TU-4E)



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02-02 C-V01-S



Internet Telephony Gateway
2/4/8/24/32-port Voice over IP



Make calls through Internet now is an ideal way to save your phone fee for your international business. Use of H.323, H.460 and SIP standard protocol stack, also the most popular CODEC, G.711, G.723, G.728 and G.729, the VoIP products should bring your voice over the Internet easily and efficiently.

The range of PLANET Internet Telephony Gateway includes the SOHO range 24-port products, 8-port module one and T1/E1 trunk models for the middle size enterprise.

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

VP-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 PSTN system or local PSTN.

To give the customer more flexibility on port number and interface choices, PLANET's VP-600 supports two expansion slots for choice of 4 ports FXO, 4-port FXS and 4-port ESM modules.

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

The H.323 compatibility helps the VoIP gateway cooperate with any popular H.323 applications or gateways in the market like Windows NetMeeting, WebPhone, etc. While ITU G.711, G.723, G.728 and G.729 voice CODEC and compression also helps it to be compatible with the world famous Internet Telephony System like Cisco, RADVISION, etc.

Furthermore, it also 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 series most popular Internet Telephony Gateway services from various
- **Easy Setup**
Uses standard ports (RJ-45 or RS-232 C) for easy setup and management
- **H.323 protocol stack Compliant**
H.323 series compatibility with various Internet telephony applications including Microsoft NetMeeting, NetScape, WinPhone and many more.
- **DNS call support**
Uses easy setup page with instructions, while using great instructions to setup routers and servers, users can network equipment with various DNS servers (Planet's own servers Router XRT-101A, XRT-401A, and XRT-711A).
- **PPPoE, DHCP, DDNS client support**
With easy setup-in-agents, aDSL/Cable users can enjoy additional benefits of Internet working with VPN services. (PPPoE, DHCP, DDNS clients with no support in its upcoming releases.)
- **IVR**
Answer the calls and program or voice greeting messages, to get the caller to receive 24*7 calling.



HINTS :

- **Class 1 Class 2** is a technology to send analog voice to digital data via from various.
- **DSP Digital Signal Processor** is a hardware solution, a device that processes or generates a signal. For example, telephony computers use a DSP to convert analog signals transmitted in their digital networks to analog signals transmitted on their analog 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 computer technology to deliver services such as to customer help desks to Internet sites.

> Requirements to Install PLANET VoIP gateway:

The VoIP gateway or PLANET is a standard H.323 VoIP Gateway, that can connect either to the Internet or receiving a call from any H.323 service or routing the calls to any H.323 gateway.

The requirements are the following:

1. An active IP address on the gateway
2. A router with at least 40Kbps connection for 2-connection mode.

In some cases, you may require additional equipment or access two ports. The standard VoIP gateway uses a connection to the Internet must to take or two more things:

1. To connect across network the TCP/IP configuration needs your VoIP gateway, it is router is a NAT Router or not required.
2. User or gateway IP address (configure router and/or the VoIP gateway) can also be connected, check your router or the VoIP gateway cannot support dynamic DNS right now. So that the user and User can reach you via the Domain Name you mentioned.

Applications

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

The VoIP Gateway supports the following applications:

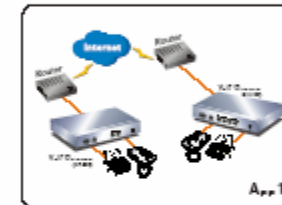
1. **Company to Company**
Make calls / Fax all through Internet (not through local PSTN) Right for companies with lots of branches in foreign countries.
2. **Company to local PSTN**
Suitable for areas incompatible provided Internet Calls. With the VoIP Gateway connect to local PSTN, you can provide your staff about make calls from through they are for easy.
3. **Calls to your relatives or friends**
The 24*7 port module with support for DDNS offer the most effective way to make calls to your friends relatives with just a pair of the VoIP to through your already existant Internet path like ADSL or Cable.

App1. Phone call from Headquarters to Branches via the Internet

This application can directly connect to the FXS ports or VIP-200M/00 or VIP-000 area direct Internet telephone Calls can be made.

Plus up your phone area into the internet network, you can have free to talk with anyone and use any H.323 Gateway via the Internet.

Fax is also available (type connect a fax machine to the FXS port). Send FAX through Internet is also possible.



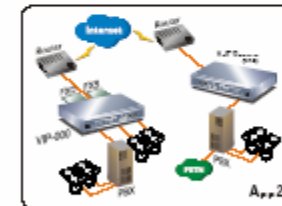
App 1.

App2. Internet, internal phone call from Headquarters (HQ) to Branches, or multiple point calls via the Internet

2 or up to 8 simultaneous In-PBX can directly connect to the FXS ports or VIP-400VP-000 (HQ). From an In-PBX station present in your HQ can reach an Internet site to connect through from a station there.

Or stationary station stations can call back to headquarters, and then make calls to stationary phone systems through the PSTN.

Once the VoIP Gateway connects to the station via or your PBX, the calls were your customer sets can not be through Internet call in your company though they are for easy!



App 2.

> Call to Planet

Users can enjoy utilize any Internet-ready PC equipped with H323 reception applications like MS NetMeeting to experience the power of our VoIP service.

In NetMeeting, please assign the H323 gateway to the IP of our VIP-000 (e.g. planet.com.id), and dial *0* plus the extension number of your user representation, 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!