

16-Port H.323 / SIP VoIP Gateway



With years of Internet telephony and router manufacturing experiences, PLANET proudly introduces the latest member of the PLANET high-density port VoIP gateway family: the VIP-1680 / VIP-1680FO / VIP-1680FS.

The PLANET VIP-1680 series VoIP Gateway are dual standard (SIP and H.323) compliant residential gateways that provide a total solution for integrating voice-data network and the Public Switched Telephone Network (PSTN). The VIP-1680 series not only provide high-quality voice communications but also offer secure, reliable Internet sharing capabilities for daily voice and Internet communications.

With advanced DSP processor (TI) and cutting-edge VoIP technology, the PLANET VIP-1680 series are capable of handling both SIP and the H.323 calls. With up to 16 registrations to the SIP proxy or H.323 Gatekeeper and allows 16 lines analog voice and fax communication over a traditional data communications/data networking digital Internet, the VIP-1680 series are able to make calls to either H.323 or SIP voice communication environment. The VIP-1680 series are equipped with a Ethernet switch and built-in NAT router function that provides Internet access using only one IP address; with these features, users can now enjoy high-quality voice calls and secure Internet access without interfering with routine activities.

Meanwhile, the PLANET VIP-1680 series are designed in comfort and ease-of-use for customers. The VIP-1680 series not only inherit traditions of quality voice communications and real-time fax data over IP networks but also eliminate the human resource in VoIP network deployment. With optimized H.323/SIP architecture, the PLANET VIP-1680 series are ideal choices for P2P voice chat, ITSP cost-saving solution, as well as providing network-converting feature to translate the packet network into traditional PBX system.

With built-in PPPoE/DHCP/DDNS clients, up to 16 concurrent connections can be offered in VIP-1680 series, therefore voice communications can be established anywhere around the world. The PLANET VIP-1680 series

come with intuitive user-friendly yet powerful management interface (web/telnet/console) that can dramatically reduce IT personnel resource and complete VoIP deployment in a short time. With the remote management capability provided, the VoIP administrators can monitor machine/network status, or proceeds maintenance/trouble-shooting service via Internet browser or telnet session. Besides, the VIP-1680 series provide voice channels status display and optimized packet voice streaming over managed and public (Internet) IP networks.

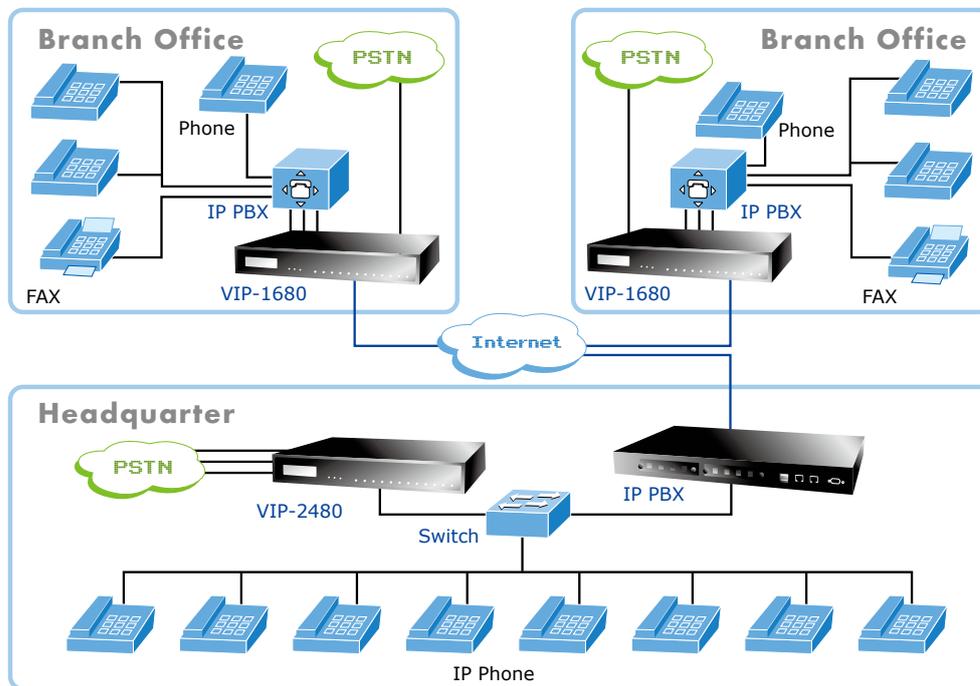
KEY FEATURES

NETWORK FEATURES

- **Network Address Translation (NAT)**
NAT allows multiple PCs to connect to an Internet Service Provider (ISP) using a single Internet access account.
- **Point-to-Point Protocol over Ethernet (PPPoE) Client Support:**
If you are a DSL user, the router has a built-in PPPoE client for establishing a DSL link connection with the ISP. There is no need to install a further PPPoE driver on your computers.
- **Smart QoS**
The smart QoS provides stable voice quality while users access to Internet from private LAN at the same time. This device would start suppressing throughput automatically when VoIP call proceed and keep full speed access when there is no VoIP traffic.
- **DDNS(Dynamic Domain Name Server)**
DDNS is a service that maps Internet domain names to IP addresses. It allows you to provide Internet users with a domain name (instead of an IP Address) to access your Virtual Servers.
- **Virtual Server**
Remote Users can access services such as the Web or FTP at your local site via public IP addresses and can be automatically redirected to local servers configured with private IP addresses.

VOIP FEATURES

- H.323 / SIP dual mode communication
- SIP 2.0 (RFC3261), H.323v4 compliant
- Peer-to-Peer / H.323 GK / SIP proxy calls
- PSTN lifeline for emergency calls (VIP-1680 model)
- Voice codec support: G.711(A-law / u-law), G.729 AB, G.723 (6.3 Kbps / 5.3Kbps)
- Voice processing: Voice Active Detection, DTMF detection, G.165/G.168 compliant echo canceller, silence detection, FAX (T.38 / T.30) Mode Option
- Built in adaptive buffer that helps to smooth out the variations in delay (jitter) for voice traffic
- Voice channels status display: This function display each port status likes as on-hook, off-hook, calling number called number, talk duration, codec

APPLICATIONS

SPECIFICATION

Product	16-Port H.323/SIP VoIP Gateway		
Model	VIP-1680	VIP-1680FO	VIP-1680FS
Hardware			
WAN	1 x 10/100Mbps RJ-45 port		
LAN	1 x 10/100Mbps RJ-45 port		
Voice	1 x RJ-21 connector for connecting to telephone patch panel (8 x FXS, 8 x FXO)	1 x RJ-21 connector for connecting to telephone patch panel (16 x FXO)	1 x RJ-21 connector for connecting to telephone patch panel (16 x FXS)
Protocols and Standard			
Standard	H.323 v2/v3/v4 and SIP (RFC 3261) , SDP (RFC 2327), Symmetric RTP, STUN (RFC3489), ENUM (RFC 2916), RTP Payload for DTMF Digits (RFC2833), Outbound Proxy Support.		
Voice codec	G.711(A-law /u-law), G.729 AB, G.723 (6.3 Kbps / 5.3Kbps)		
Fax support	T.30, T.38		
Voice Standard	Voice activity detection (VAD) Comfort noise generation (CNG) G.165/G.168 Echo cancellation Dynamic Jitter Buffer		
Protocols	TCP/IP, UDP/RTP/RTCP, HTTP, ICMP, ARP, NAT, DHCP, PPPoE, DNS		
Advanced Function	Virtual Server, Smart QoS, IP TOS (IP Precedence) / DiffServ, Build-in NAT router function.		
Network and Configuration			
Access Mode	Static IP, PPPoE, DHCP		
Management	Web, Telnet, Console		
LED Indications	System: 2, PWR/CPU WAN: 1, LNK/ACT LAN: 1, LNK/ACT Voice 16, In-Use/Ringing		
Dimension (W x D x H)	440 x 250 x 44 mm		
Operating Environment	0~40 Degree C, 0~95% humidity		
Power Requirement	110~240V AC 50/60Hz		
EMC/EMI	CE, FCC Class B		

ORDERING INFORMATION

VIP-1680	H.323 / SIP VoIP Gateway (1 x WAN, 1 x LAN, 8 x FXO / 8 x FXS; life line support)
VIP-1680FO	H.323 / SIP VoIP Gateway (1 x WAN, 1 x LAN, 16 x FXO)
VIP-1680FS	H.323 / SIP VoIP Gateway (1 x WAN, 1 x LAN, 16 x FXS)