

H.323 / SIP VoIP GSM Gateway



The PLANET VIP-281GS VoIP GSM Gateway is a signal-GSM channel gateway that supports SIP and H.323 VoIP protocol at the same time. The VIP-281GS provides a total solution for integrating voice-data network and the Global System for Mobile Communications (GSM).

The VIP-281GS is equipped with both FXS and PSTN interfaces, which gives the gateway a wide range of potential applications. The VIP-281GS can be installed on a PBX trunk line to enrich its trunks-GSM and VoIP routes. The PBX is able to have voice communication to either VoIP or GSM environment by the least costs.

Meanwhile, the VIP-281GS is designed for comfort, ease-of-use with a sophisticated and satisfaction to customers. The VIP-281GS not only inherits traditions of quality voice communications and real-time fax data over IP networks but the VIP-281GS also eliminates the human resource of VoIP network deployment. With optimized H.323/SIP architecture, the VIP-281GS is the ideal choices for P2P voice chat and ITSP cost-saving solution, but also provides network-converting feature to translate the packet network into traditional PBX system.

With built-in PPPoE/DHCP/DDNS clients, up to 2 concurrent connections in VIP-281GS, voice communications can be established from anywhere around the world. The VIP-281GS comes with intuitive user-friendly and powerful management interface (web/telnet), that can dramatically reduce IT personnel resource and complete GSM/VoIP deployment in a short time. Plus remote management capability, administrators can monitor machine/network status or proceed maintenance/trouble-shooting service via Internet browser or telnet session.

Besides, it provides voice channels status display and optimized packet voice streaming over managed and public (Internet) IP networks.

KEY FEATURE

Network Features

- **Point-to-Point Protocol over Ethernet (PPPoE) Client Support**
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 computers
- **Smart QoS**
The smart QoS provides stable voice quality while users access internet from private LAN to internet at the same time. This device would start suppressing throughput automatically when VoIP call was proceeded and it 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 Virtual Servers
- **NAT Traversal**
The NAT traversal allows gateway to operate behind any NAT/Firewall device. There is no need to change any configuration of NAT/Firewall like setting virtual server

VoIP Features

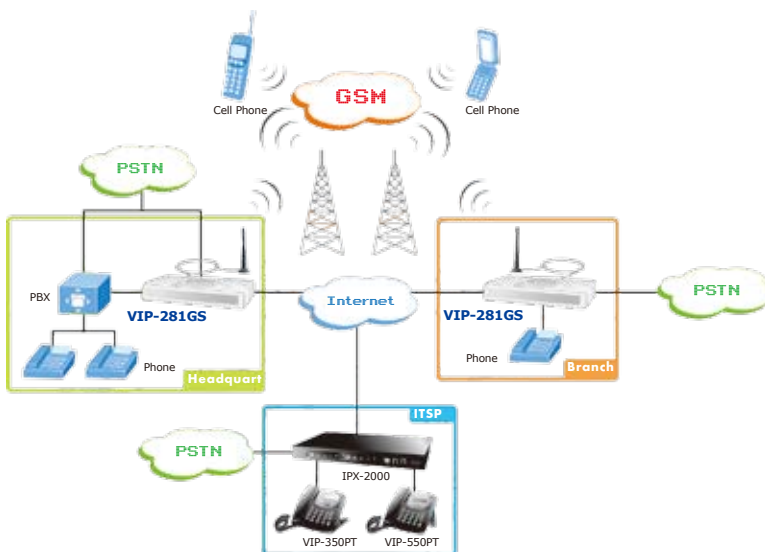
- H.323 / SIP dual mode communication
- SIP 2.0 (RFC3261), H.323v4 compliant
- Peer-to-Peer / H.323 GK / SIP proxy calls
- Voice codec support: G.711(A-law / μ -law), G.729 AB, G.723 (6.3 Kbps / 5.3Kbps)
- Voice processing: Voice Active Detection, DTMF detection, G.165/G.168 compliant echo canceller, silence detection
- Built-in adaptive buffer that helps to smooth out the variations of delay (jitter) in voice traffic
- Voice channels status display: This function displays each port status such as on-hook, off-hook, calling number, talk duration, codec

GSM Features

- SMS Server for SMS sending and receiving
- Worldwide GSM network usable (850/900/1800/1900 MHz)
- Supports GSM PIN code protection

SPECIFICATION

Product	H.323/SIP VoIP GSM Gateway
Model	VIP-281GS
Hardware	
WAN	1 x 10/100Mbps RJ-45 port
FXS	1 x RJ-11 connection
PSTN	1 x RJ-11 connection
GSM	1 x SIM connection
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 / μ -law), G.729 AB, G.723 (6.3 Kbps / 5.3Kbps)
Voice Standard	Voice activity detection (VAD) Comfort noise generation (CNG) G.165/G.168 Echo cancellation Dynamic Jitter Buffer
Protocols	SIP 2.0 (RFC-3261), H.323, TCP/IP, UDP/RTP/RTCP, HTTP, ICMP, ARP, PPPoE, DNS
Advanced Function	Smart QoS, IP TOS (IP Precedence) / DiffServ
Network and Configuration	
Access Mode	Static IP, PPPoE, DHCP
Management	Web, Telnet
LED Indications	System: 1, PWR WAN: 1, LNK/ACT Line: 1, In-Use/Ringing Phone: 1, In-Use/Ringing GSM: 1, In-Use/Standby SMS: 1, Transmission
Dimension (W x D x H)	180 x 110 x 25 mm
Operating Environment	0~40 degree C, 0~90% humidity
Power Requirement	12V DC
EMC/EMI	CE, FCC Class B

APPLICATIONS
VIP-281GS GSM/VoIP voice communication

ORDERING INFORMATION

VIP-281GS	H.323 / SIP VoIP GSM Gateway (1 x WAN, 1 x FXS, 1 x GSM, 1 x PSTN)
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