

VIP-2480 / VIP-2480FO VIP-2480FS

# 24-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-2480 / VIP-2480FO / VIP-2480FS.

The PLANET VIP-2480 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-2480 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-2480 series are capable of handling both SIP and the H.323 calls. With up to 24 registrations to the SIP proxy or H.323 Gatekeeper and allows 24 lines analog voice and fax communication over a traditional data communications/data networking digital Internet, the VIP-2480 series are able to make calls to either H.323 or SIP voice communication environment. The VIP-2480 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-2480 series are designed in comfort and ease-of-use for customers. The VIP-2480 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-2480 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 24 concurrent connections can be offered in VIP-2480 series, therefore voice communications can be established anywhere around the world. The PLANET VIP-2480 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-2480 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**

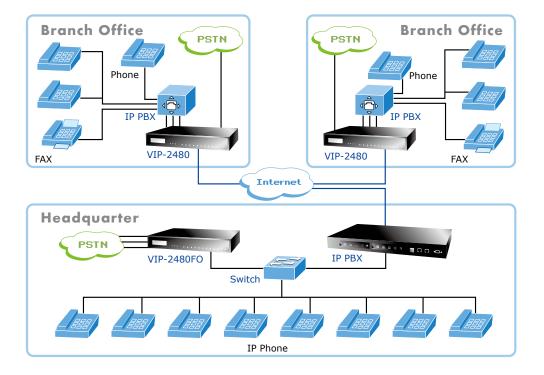
- H.323 / SIP dual mode communication
- SIP 2.0 (RFC3261), H.323v4 compliant
- Peer-to-Peer / H.323 GK / SIP proxy calls
- PSTN lifeline for emergency calls (VIP-2480 model)
- Voice codec support: G.711(A-law / u-law), G.729 AB, G.723 (6.3 Kbps / 5.3Kbps)
- Voice processing: Voice Active Detection, DTMF 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

#### **Data Sheet**



VIP-2480 / VIP-2480FO VIP-2480FS

#### APPLICATIONS



## SPECIFICATION

WAN       1 x 10/100Mbps RJ-45 port         LAN       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       1 x RJ-21 connector for connecting to telephone patch panel       1 x RJ-21 connector for connecting to telephone patch panel         Yoice       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 (G.3 Kbps / 5.3Kbps)         Fax support       T.30, T.38         Voice standard       Voice activity detection (VAD)         Voice codec       G.711 (A-law /u-law), G.729 AB, G.723 (G.3 Kbps / 5.3Kbps)         Fax support       T.30, T.38         Voice activity detection (VAD)         Corrifor noise generation (CNG) G.165/G.168 Echo cancellation Dynamic litter Buffer         Protocols       Coffiguration         Advanced Function       Virtual Server, Smart QoS, IP TOS (IP Precedence) / DiffServ, Build-in NAT router function         Network and Configuration       System: 2, PWR/CPU         LED Indications       Valvi L, INK/ACT LAN: 1, LNK/ACT         Voice 24, In-Use/Ringing       UOA x 250 x 44 mm         Operating Environment       0-40 Degree C, 0-95% humidity         Power Requirement	Product	24-Port H.323/SIP VoIP Gateway			
WAN         1 x 10/100Mbps RJ-45 port           LAN         1 x RJ-21 connector for connecting to telephone patch panel (12 x FXS, 12 x FXO)         1 x RJ-21 connector for connecting to telephone patch panel (24 x FXO)         1 x RJ-21 connector for connecting to telephone patch panel (24 x FXO)           Protocols and Standard         5TUR (RFC 3489), ENUM (RFC 3261), SDP (RFC 2327), Symmetric RTP, STUR (RFC 3489), ENUM (RFC 2916), RTP Payload for DTMF Digits (RFC 233), Outbound Proxy Support.           Standard         G.711 (A-law /u-law), G.729 AB, G.723 (G.3 Kbps / 5.3Kbps)         Vertice         STUR (RFC 3489), ENUM (RFC 2916), RTP Payload for DTMF Digits (RFC 233), Outbound Proxy Support.           Voice codec         G.711 (A-law /u-law), G.729 AB, G.723 (G.3 Kbps / 5.3Kbps)         Vertice         Vertice <t< td=""><td>Model</td><td>VIP-2480</td><td>VIP-2480FO</td><td>VIP-2480FS</td></t<>	Model	VIP-2480	VIP-2480FO	VIP-2480FS	
LAN1 x 10/100Mbps R1-45 portLAN1 x RJ-21 connector for connecting to telephone patch panel (12 x FXS, 12 x FXO)1 x RJ-21 connector for connecting to telephone patch panel (24 x FXO)1 x RJ-21 connector for connecting to telephone patch panel (24 x FXO)Protocols and StandardH.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 codecG.711 (A-law /u-law), G.729 AB, G.723 (G.3 Kbps / 5.3Kbps)Fax supportT.30, T.38Voice activity detection (VAD) Comfort noise generation (CNG) G.155/G.168 Echo cancellation Dynamic Jitter BufferProtocolsTCP/P, UDP/RTP/RTCP, HTTP, ICMP, ARP, NAT, DHCP, PPPoE, DNSAdvanced FunctionVirtual Server, Smart QoS, IP TOS (IP Precedence) / DiffServ, Build-in NAT router functionNetwork and ConfigurationVeloce, ConsoleAccess ModeSatic IP, PPPOE, DHCPLED IndicationsWAN: 1, LNK/ACT LAN: 1, LNK/ACT Voice 24, In-Use/RingingDimension (W x D x H)440 x 250 x 44 mmOperating Environment0-40 Degree C, 0-95% humidityPower Requirement110-240V AC 50/60Hz	Hardware				
Voice1 x RJ-21 connector for connecting to telephone patch panel (2 x FXS, 12 x FXO)1 x RJ-21 connector for connecting to telephone patch panel (2 4 x FXO)1 x RJ-21 connector for connecting to telephone patch panel (2 4 x FXO)Protocols and StandardH.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 codecG.711 (A-law /u-law), G.729 AB, G.723 (G.3 Kbps / 5.3Kbps)Jute to the telephone patch panelFax supportT.30, T.38T.30, T.38Voice standardComfort noise generation (CNG) G.165/G.168 Echo cancellation Dynamic Jitter BufferStand ConfigurationProtocolsTCP/IP, UDP/RTP/RTCP, HTTP, ICMP, ARP, NAT, DHCP, PPPoE, DNSTouter functionAdvanced FunctionVirtual Server, Smart QoS, IP TOS (IP Precedence) / DiffServ, Build-in NAT router functionNetwork and ConfigurationVertual Server, Smart QoS, IP TOS (IP Precedence) / DiffServ, Build-in NAT router functionNetwork and ConfigurationVertual Server, Smart QoS, IP TOS (IP Precedence) / DiffServ, Build-in NAT router functionLED IndicationsSystem: 2, PWR/CPU WAN: 1, LNK/ACT LAN: 1, LNK/ACT 	WAN	1 x 10/100Mbps RJ-45 port			
Voiceconnecting to telephone patch panelconnecting to telephone patch panelconnecting to telephone patch panel(12 x FXS, 12 x FXO)(24 x FXO)(24 x FXS)Protocols and StandardH.323 v2/v3/v4 and SIP (RFC 3261) , SDP (RFC 2327), Symmetric RTP, STUN (RFC 3489), ENUM (RFC 2916), RTP Payload for DTMF Digits (RFC 2833), Outbound Proxy Support.StandardG.711 (A-law /u-law), G.729 AB, G.723 (G.3 Kbps / 5.3Kbps)Voice codecG.711 (A-law /u-law), G.729 AB, G.723 (G.3 Kbps / 5.3Kbps)Fax supportT.30, T.38Voice activity detction (VAD) Comfort noise generation (CNG) G.165/G.168 Echo cancellation Dynamic litter BufferProtocolsTCP/IP, UDP/RTP/RTCP, HTTP, ICMP, ARP, NAT, DHCP, PPPoE, DNSAdvanced FunctionVirtual Server, Smart QoS, IP TOS (IP Precedence) / DiffServ, Build-in NAT router functionNetwork and ConfigurationStatic IP, PPPoE, DHCPAccess ModeStatic IP, PPPoE, DHCPManagementVeb, Telnet, ConsoleSystem: 2, PVWR/CPUSystem: 2, PVWR/CPULED IndicationsSystem: 2, PVWR/CPUDimension (W x D x H)440 x 250 x 44 mmOperating Environmet0-400 Degree C, 0-95% humidityPower Requirement110-240V AC 50/60Hz	LAN	1 x 10/100Mbps RJ-45 port			
StandardH.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 codecG.711 (A-law /u-law), G.729 AB, G.723 (6.3 Kbps / 5.3Kbps)Fax supportT.30, T.38Voice activity detection (VAD) Comfort noise generation (CNG) G.165/G.168 Echo cancellation Dynamic Jitter BufferProtocolsTCP/IP, UDP/RTP/RTCP, HTTP, ICMP, ARP, NAT, DHCP, PPPoE, DNSAdvanced FunctionVirtual Server, Smart QoS, IP TOS (IP Precedence) / DiffServ, Build-in NAT router functionNetwork and ConfigurationStatic IP, PPDE, DHCPManagementWeb, Telnet, Console System: 2, PWR/CPU WAN: 1, LNK/ACT LAN: 1, LNK/ACT Voice 24, In-Use/RingingLED Indications0.40 Degree C, 0~95% humidityOperating Environment0~40 Degree C, 0~95% humidityPower Requirement110~240V AC 50/60Hz	Voice	connecting to telephone patch panel	connecting to telephone patch panel	connecting to telephone patch panel	
StandardSTUN (RFC3489), ENUM (RFC 2916), RTP Payload for DTMF Digits (RFC2833), Outbound Proxy Support.Voice codecG.711 (A-law /u-law), G.729 AB, G.723 (6.3 Kbps / 5.3Kbps)Fax supportT.30, T.38Voice activity detection (VAD)Comfort noise generation (CNG) G.165/G.168 Echo cancellation Dynamic litter BufferProtocolsCCP/IP, UDP/RTP/RTCP, HTTP, ICMP, ARP, NAT, DHCP, PPPoE, DNSAdvanced FunctionVirtual Server, Smart QoS, IP TOS (IP Precedence) / DiffServ, Build-in NAT router functionNetwork and ConfigurationVietnet, ConsoleAccess ModeStatic IP, PPPoE, DHCPManagementWeb, Telnet, Console System: 2, PWR/CPULED IndicationsWAN: 1, LNK/ACT LAN: 1, LNK/ACT Voice 24, In-Use/RingingDimension (W x D x H)440 x 250 x 44 mmOperating Environment0-40 Degree C, 0-95% humidityPower Requirement110-240V AC 50/60Hz	Protocols and Standard				
Fax supportT.30, T.38Fax supportT.30, T.38Voice activity detection (VAD)Comfort noise generation (CNG)G.165/G.168 Echo cancellationDynamic Jitter BufferProtocolsTCP/IP, UDP/RTP/RTCP, HTTP, ICMP, ARP, NAT, DHCP, PPPoE, DNSAdvanced FunctionVirtual Server, Smart QoS, IP TOS (IP Precedence) / DiffServ, Build-in NAT router functionNetwork and ConfigurationVirtual Server, Smart QoS, IP TOS (IP Precedence) / DiffServ, Build-in NAT router functionNetwork and ConfigurationVirtual Server, Smart QoS, IP TOS (IP Precedence) / DiffServ, Build-in NAT router functionNetwork and ConfigurationVirtual Server, Smart QoS, IP TOS (IP Precedence) / DiffServ, Build-in NAT router functionNetwork and ConfigurationVirtual Server, Smart QoS, IP TOS (IP Precedence) / DiffServ, Build-in NAT router functionNetwork and ConfigurationVirtual Server, Smart QoS, IP TOS (IP Precedence) / DiffServ, Build-in NAT router functionNetwork and ConfigurationVirtual Server, Smart QoS, IP TOS (IP Precedence) / DiffServ, Build-in NAT router functionNetwork and ConfigurationVirtual Server, Smart QoS, IP TOS (IP Precedence) / DiffServ, Build-in NAT router functionLED IndicationsStatic IP, PPPE, DHCPLED IndicationsValue, I, LNK/ACT LAN: 1, LNK/ACT Voice 24, In-Use/RingingDimension (W x D x H)440 x 250 x 44 mmOperating Environment0~40 Degree C, 0~95% humidityPower Requirement110~240V AC 50/60Hz	Standard				
Voice StandardVoice activity detection (VAD) Comfort noise generation (CNG) G.165/G.168 Echo cancellation Dynamic Jitter BufferProtocolsTCP/IP, UDP/RTP/RTCP, HTTP, ICMP, ARP, NAT, DHCP, PPPoE, DNSAdvanced FunctionVirtual Server, Smart QoS, IP TOS (IP Precedence) / DiffServ, Build-in NAT router functionNetwork and ConfigurationVirtual Server, Smart QoS, IP TOS (IP Precedence) / DiffServ, Build-in NAT router functionAccess ModeStatic IP, PPPoE, DHCPManagementWeb, Telnet, ConsoleLED IndicationsSystem: 2, PWR/CPU VAN: 1, LNK/ACT LAN: 1, LNK/ACT Voice 24, In-Use/RingingDimension (W x D x H)440 x 250 x 44 mmOperating Environment0~40 Degree C, 0~95% humidityPower Requirement110~240V AC 50/60Hz	Voice codec	G.711 (A-law /u-law), G.729 AB, G.723 (6.3 Kbps / 5.3Kbps)			
Voice StandardComfort noise generation (CNG) G.165/G.168 Echo cancellation Dynamic Jitter BufferProtocolsTCP/IP, UDP/RTP/RTCP, HTTP, ICMP, ARP, NAT, DHCP, PPPoE, DNSAdvanced FunctionVirtual Server, Smart QoS, IP TOS (IP Precedence) / DiffServ, Build-in NAT router functionNetwork and ConfigurationVirtual Server, Smart QoS, IP TOS (IP Precedence) / DiffServ, Build-in NAT router functionAccess ModeStatic IP, PPPoE, DHCPManagementWeb, Telnet, ConsoleLED IndicationsSystem: 2, PWR/CPU WAN: 1, LNK/ACT LAN: 1, LNK/ACT Voice 24, In-Use/RingingDimension (W x D x H)440 x 250 x 44 mmOperating Environment0~40 Degree C, 0~95% humidityPower Requirement110~240V AC 50/60Hz	Fax support	Т.30, Т.38			
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         System: 2, PWR/CPU       WAN: 1, LNK/ACT         LED Indications       WAN: 1, LNK/ACT         Voice 24, In-Use/Ringing       Vice 24, 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	Voice Standard	Comfort noise generation (CNG) G.165/G.168 Echo cancellation			
Network and Configuration         Access Mode       Static IP, PPPoE, DHCP         Management       Web, Telnet, Console         System: 2, PWR/CPU       WAN: 1, LNK/ACT         LED Indications       WAN: 1, LNK/ACT         Voice 24, In-Use/Ringing       Voice 24, 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	Protocols	TCP/IP, UDP/RTP/RTCP, HTTP, ICMP, ARP, NAT, DHCP, PPPoE, DNS			
Access ModeStatic IP, PPPOE, DHCPManagementWeb, Telnet, ConsoleSystem: 2, PWR/CPULED IndicationsWAN: 1, LNK/ACTLAN: 1, LNK/ACTVoice 24, In-Use/RingingDimension (W x D x H)440 x 250 x 44 mmOperating Environment0~40 Degree C, 0~95% humidityPower Requirement110~240V AC 50/60Hz	Advanced Function	Virtual Server, Smart QoS, IP TOS (IP Precedence) / DiffServ, Build-in NAT router function			
Management       Web, Telnet, Console         System: 2, PWR/CPU         WAN: 1, LNK/ACT         LED Indications         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	Network and Configuration				
LED Indications       System: 2, PWR/CPU         WAN: 1, LNK/ACT       LAN: 1, LNK/ACT         Voice 24, In-Use/Ringing       Voice 24, 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	Access Mode	Static IP, PPPoE, DHCP			
LED Indications       WAN: 1, LNK/ACT         LAN: 1, LNK/ACT       LAN: 1, LNK/ACT         Voice 24, In-Use/Ringing       Voice 24, 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	Management	Web, Telnet, Console			
Operating Environment       0~40 Degree C, 0~95% humidity         Power Requirement       110~240V AC 50/60Hz	LED Indications	WAN: 1, LNK/ACT LAN: 1, LNK/ACT			
Power Requirement 110~240V AC 50/60Hz	Dimension (W x D x H)	440 x 250 x 44 mm			
•	<b>Operating Environment</b>	0~40 Degree C, 0~95% humidity			
EMC/EMI CE, FCC Class B	Power Requirement	110~240V AC 50/60Hz			
	EMC/EMI	CE, FCC Class B			

# **Data Sheet**

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VIP-2480	H.323 / SIP VoIP Gateway (1 x WAN, 1 x LAN, 12 x FXO /12 x FXS; life line support)
VIP-2480FO	H.323 / SIP VoIP Gateway (1 x WAN, 1 x LAN, 24 x FXO)
VIP-2480FS	H.323 / SIP VoIP Gateway (1 x WAN, 1 x LAN, 24 x FXS)

**Data Sheet** 

 PLANET Technology Corporation

 11F, No. 96, Min Chuan Road, Hsin Tien, Taipei, Taiwan, R.O.C.

 Tel: 886-2-2219-9518
 Fax: 886-2-2219-9528

 Email: sales@planet.com.tw
 www.planet.com.tw

 VoIP Gateway: vip.planet.com.tw



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