

## 4-Port SIP VoIP Gateway (4 FXS)



### *High Quality yet Affordable for All Businesses*

PLANET VGW-410FS enterprise-class 4-port SIP VoIP Gateway provides added flexibility during migration to Unified Communications by supporting the traditional analog devices. These devices include analog phones, fax machines, modems, voicemail systems and speakerphones.



### *Enhanced, Full-Featured Business Gateway*

PLANET VGW-410FS 4-port FXS VoIP Gateway is a fully SIP standard compliant residential gateway that provides a total solution for integrating voice-data network, with built-in PPPoE/DHCP/DDNS clients, up to 4 concurrent connections. Voice communications can be established from anywhere around the world, and it not only provides quality voice communications, but also offers secure, reliable Internet sharing capabilities for daily voice and Internet communications.

### *Distributed VoIP Network Infrastructure*

PLANET VGW series is easy to use for all types of businesses. The VGW-410FS offers quality voice communications and real-time fax data over IP networks and it does not need human resources to deploy a VoIP network. With the optimized SIP architecture, PLANET VGW-410FS is the ideal choice for P2P/SIP proxy (IP PBX) voice chat, and ITSP cost-saving solution.

### SIP Applications

- IETF SIP RFC3261 compliance
- 4-line FXS connects to analog phone set or PABX
- ITU-T G.711 A-law, G.711  $\mu$ -law, G.723.1 and G.729 voice coding
- In-band / out of band DTMF (RFC4733, RFC2833 / SIP INFO)
- Echo cancellation exceeding ITU-T G.165/G.168-2002, up to 128ms tail length

### Internet Features

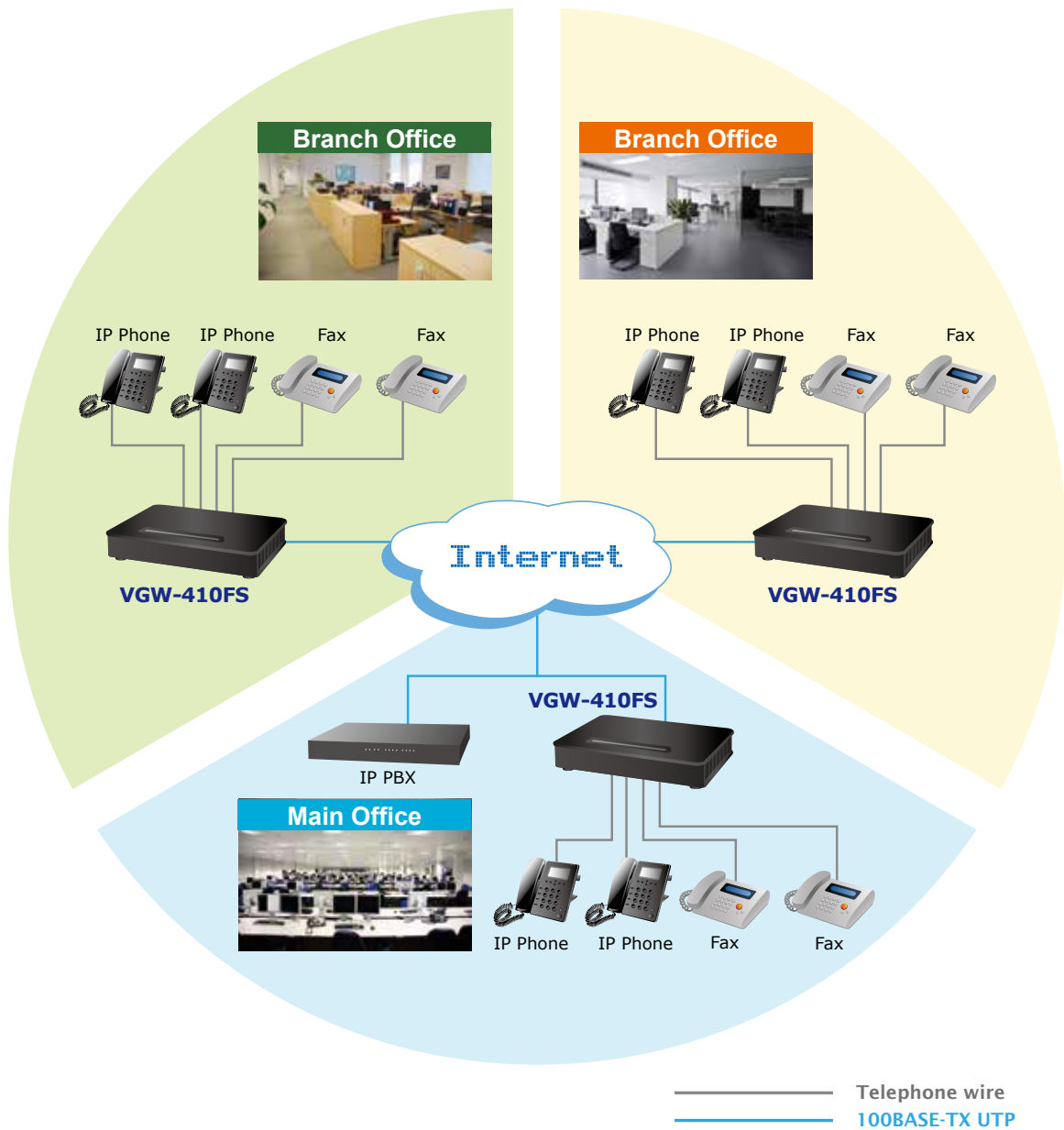
- SIP DDoS attack prevention
- Supports NAT and Firewall
- Supports DHCP server / client
- Supports VLAN and QoS: DSCP, TOS (RFC 791, 1394)

### Call Features

- Supports peer to peer dialing
- Supports STUN NAT Traversal
- Caller ID recognition DTMF and FSK
- T.30 Transparency, T.30 Bypass, and T.38 fax
- Multi-party conferencing, call forward, call waiting, hot-line call, DND (Do Not Disturb) and alarm clock

## Applications

The VGW-410FS provides the essential features you need for business-class voice communications in an easy-to-manage solution. Designed for businesses with branch offices, it helps the enterprises to save money on long-distance calls.



## Specifications

Product	VGW-410FS
<b>Hardware</b>	
WAN	1 x 10/100BASE-TX RJ45 port
LAN	1 x 10/100BASE-TX RJ45 port
Voice	4 x RJ11 connection (4 x Foreign eXchange Station)
Telephone wire transmission distance	< 1000 m
Connectors	Two 10/100BASE-TX RJ45 Ethernet ports Four RJ11 ports DC power jack
Weight	205g
Dimensions (W x D x H)	160 x 115 x 30 mm
Power Requirements	12V DC, 1.0A
<b>Protocols and Standard</b>	
Data Networking	<ul style="list-style-type: none"> <li>■ TCP/IP, UDP (RFC 793/768), RTP/RTCP (RFC 1889/1890), ARP, FTP/TFTP, HTTP, HTTPS, Telnet, ICMP, NTP/SNTP, DHCP Server/Client</li> <li>■ IPv4</li> <li>■ Static IP</li> <li>■ PPPoE Client</li> <li>■ DHCP Server, LAN port</li> <li>■ DHCP Client (RFC 2131), WAN port, NAT Server (RFC 1631)</li> <li>■ Firewall</li> <li>■ SIP DDoS attack prevention</li> <li>■ VLAN</li> <li>■ QoS: DSCP, TOS (RFC 791, 1394)</li> </ul>
VoIP	<ul style="list-style-type: none"> <li>■ IETF SIP RFC3261 compliance</li> <li>■ Primary and secondary sip server to automatic switch</li> <li>■ Voice coding: ITU-T G.711 A-law, G.711 <math>\mu</math>-law, G.723.1 (5.3K/6.3Kbit/s), G.729 and auto-negotiate with call agent</li> <li>■ Echo cancellation exceeding ITU-T G.165/G.168-2002, up to 128ms tail length</li> <li>■ 10 ~ 180ms adjustable delay jitter</li> <li>■ DSP gain can be adjusted, -5dB ~ + 10dB</li> <li>■ In-band / out of band DTMF (RFC4733, RFC2833 / SIP INFO)</li> <li>■ Integrate heartbeat function</li> <li>■ Supports active and standby call agent</li> <li>■ Supports VGW series expanding (One master and two slave)</li> <li>■ Support local polyphonic ringtone</li> <li>■ Supports call routing and Digit map</li> <li>■ Supports caller ID, DTMF and FSK</li> <li>■ Supports Dial route IP, calls between two VGWs is supported without a SIP server</li> <li>■ Supports multi-party conferencing, call forward, call waiting, hot-line call, DND (Do Not Disturb) and alarm clock</li> <li>■ Supports high/low speed fax/modem. T.30 Transparent, T.30 Bypass, and T.38 fax</li> </ul>
Management	<ul style="list-style-type: none"> <li>■ Multilingual Web User Interface</li> <li>■ 3 Levels of User Access Right with password protection with a different Web Language (Administrator, Supervisor and User)</li> <li>■ Configuration Backup/Restore</li> <li>■ Reset to factory Default</li> </ul>
<b>Environments</b>	
Operating Temperature	-10 ~ 50 degrees C
Operating Humidity	10%~90% relative humidity, non-condensing
Emission	CE, FCC

## Ordering Information

VGW-410FS	4-Port SIP VoIP Gateway (4 FXS)
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## Related Products

VGW-810FS	8-Port SIP VoIP Gateway (8 FXS)
VIP-1120PT	High Definition Color PoE IP Phone (2-line)
VIP-2140PT	High Definition Color PoE IP Phone with Dual Display (4-line)
VIP-6040PT	Gigabit Color LCD HD PoE IP Phone (4-line)
VIP-8030NT	HD Voice Conference IP Phone with PSTN (3-line)
ICF-1800	HD Touch Screen Android Multimedia Conference Phone (6-line)
VIP-462DG	802.11g SIP DECT VoIP Router
VIP-156PE	802.3af PoE SIP Analog Telephone Adapter
VIP-157S	2 FXS Analog Telephone Adapter
VPA-100	SIP Public Announcement Adapter with PoE
HDP-1100PT	720p SIP Door Phone with PoE
HDP-5240PT	720p SIP Multi-unit Video Door Phone with RFID and PoE
HDP-5260PT	720p SIP Multi-unit Apartment Vandalproof Door Phone with RFID and PoE
VTS-700P	7-inch SIP Indoor Touch Screen PoE Video Intercom
IPX-330	Internet Telephony PBX System (30 user registrations)
IPX-2100	Internet Telephony PBX System (100 user registrations)
IPX-2200	Internet Telephony PBX System (200 user registrations)
IPX-2500	Internet Telephony PBX System (500 user registrations)
UMG-1000	Desktop Unified Office Gateway