4-Port SIP VoIP Gateway (4 FXO)



Highlights

- Supports SIP 2.0 (RFC3261)
- Supports IPv6 and IPv4 simultaneously
- Up to 32 SIP service domains
- Caller ID Support
- Supports auto HTTP provision and fax feature
- Flexible Routes Plan, Dial Plan and SIP Trunk

Internet Features

- Supports SNMP v1/v2c/v3
- Supports VLAN 802.1P and 802.1Q
- Supports Layer 3 QoS and DiffServ
- Supports STUN (RFC 3489) and Outbound Proxy
- Supports TR069 and Auto Provisioning
- Supports TLS/SRTP Security

SIP Applications

- IETF SIP RFC3261 based on UDP/TCP/TLS
- 4-line FXO connects to PSTN line
- Fax over T.38 and Pass-through
- ITU-T G.711 A-law, G.711 μ-law, G.723.1 and G.729 voice coding
- In-band/out of band DTMF (RFC2833/SIP INFO)
- Echo cancellation exceeding ITU-T G.168, up to 128ms tail length
- SIP Trunk support
- Caller ID: DTMF/FSK support

Call Features

- Call waiting/transfer (blind transfer, attend transfer)
- Call hold/quick pick
- Call forwarding unconditional
- Call forwarding on no reply
- Hotline/speed dial/direct IP call
- Do Not Disturb (DND)/three-way conferencing

High-performance VoIP Gateway

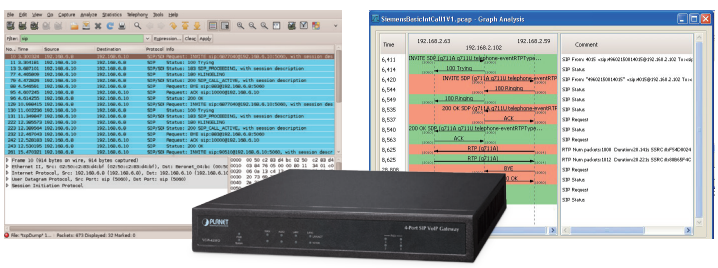
To build high-performance VoIP communications at a low cost, PLANET has launched the latest VoIP gateway model, the VGW-420FO enterprise-class 4-port SIP VoIP Gateway. The VGW-420FO gateway provides added flexibility during migration to Unified Communications by supporting the traditional analog devices. For example, the remote workers can dial in through a Unified VoIP Communication System just like an extension call but no long-distance call charge would occur. It also allows call to be transferred to anyone at any location within the voice system, which enables the enterprise to communicate more effectively and is helpful to streamline business processes.



VoIP Protocol Standard Compliance

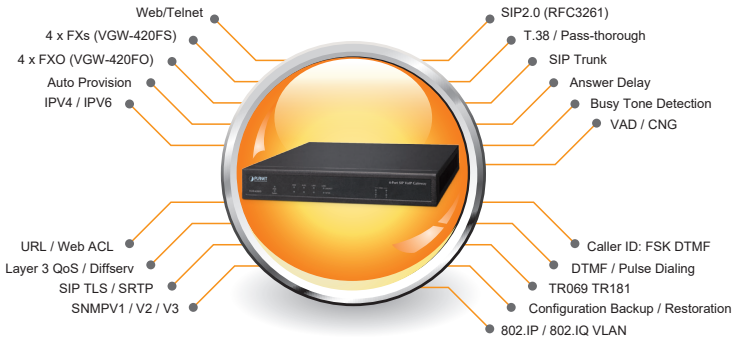
The VGW-420FO supports Session Initiation Protocol 2.0 (RFC 3261) for easy integration with general voice over IP system. The VGW-420FO is able to broadly interoperate with equipment provided by VoIP infrastructure providers, thus enabling them to provide their customers with better multi-media exchange services.

Compliant with standard SIPv2.0 RFC 3261



Enhanced, Full-Featured Business Gateway

The VGW-420FO is a full-featured enhanced business SIP Gateway that addresses the communication needs of the enterprises. It provides the 4-line FXO gateway with SIP protocol IP device which allows connection with 4 analog PSTN telephone lines set to make or receive VoIP call over Internet or VPN network. This VGW-420FO is suitable for office PABX to enable to have VoIP call without changing cabling, dial plan and extension number, The VGW-420FO supports all kinds of SIP-based gateway feature and multiple contact filter functions, such as 4 SIP trunk accounts, both IPv6 and IPv4 protocols, flexible dial plan and route plan features, and switch analog and VoIP signal, to help both protocols to communicate.



FXO Line Configuration

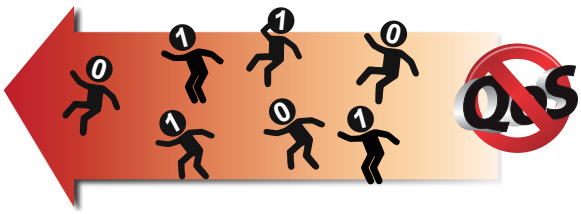
- Line ID/line phone number
- Reverse polarity detection or generation for call establish and billing
- VoIP dial to FXO/PSTN line
- Outgoing SIP caller ID selection

Routing Plan

- Prefix match and length
- Priority/Cycle/Simultaneous Ring

Secure, High-quality VoIP Communication

The VGW-420FO effortlessly delivers secured toll voice quality by utilizing cutting-edge 802.1p QoS (Quality of Service), 802.1Q VLAN tagging, and IP TOS (Type of Service) technology. Using voice and data, VLAN can easily separate the data and voice, thus maintaining the best quality.





Caller ID Function

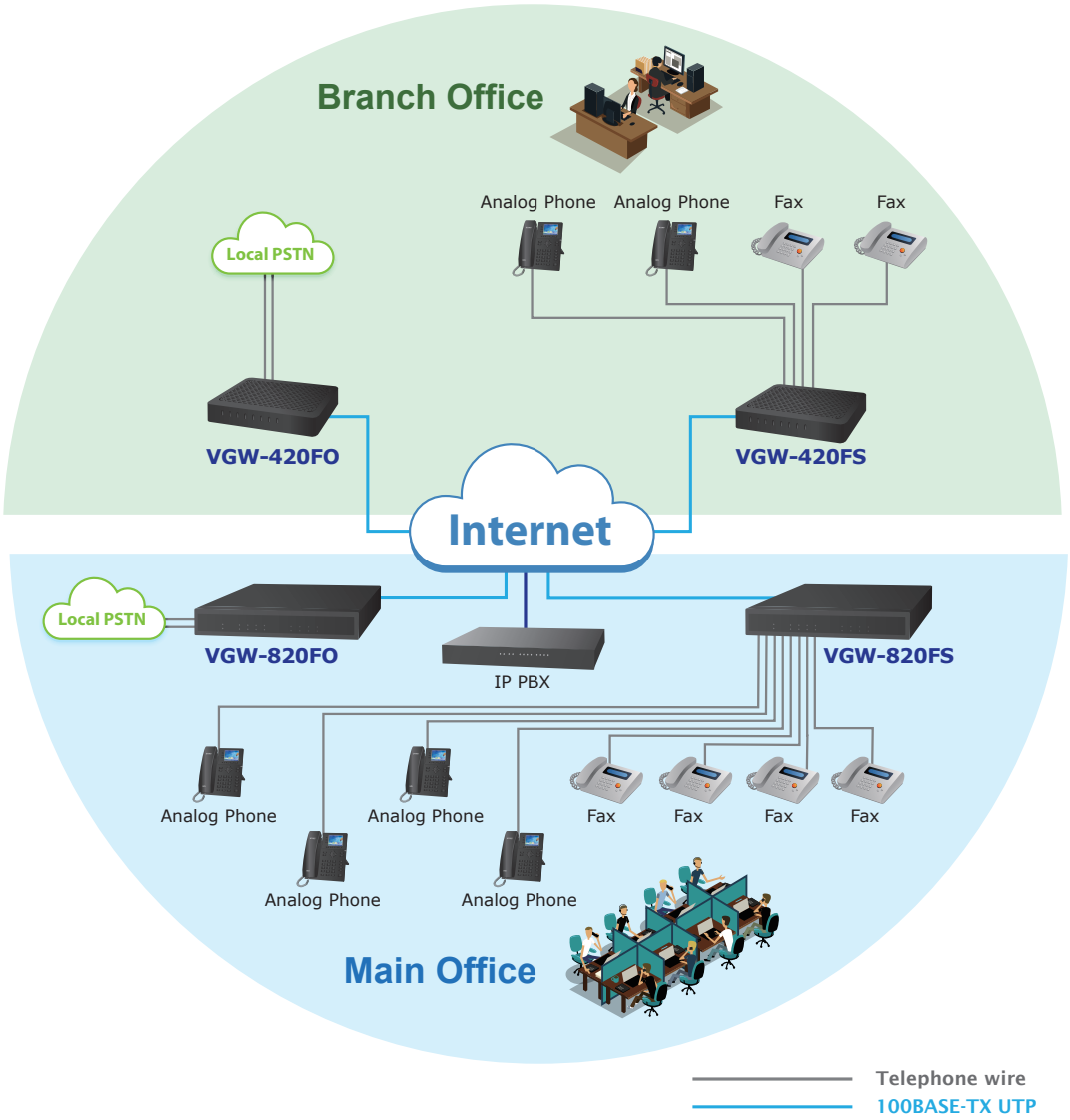
Both the FXO and FXS ports of the VGW-420 series (VGW-420FO/VGW-420FS) support caller ID function, help user identify calling number easily and verify number. It also helps to block anonymous call by filtering strange calls. The FXS port transmits Caller ID, while the FXO port receives Caller ID. The Caller ID interoperates with analog phones, public switched telephone networks (PSTN) and private branch exchanges (PBXs).



Applications

Ideal Solution for Enterprise VoIP Applicaton

The VGW-420 series (VGW-420FO/VGW-420FS) 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-420FO
Hardware	
WAN	1 x 10/100BASE-TX RJ45 port
LAN	2 x 10/100BASE-TX RJ45 port
Voice	4 x RJ11 connection (4 x FXO)
Weight	853g
Dimensions (W x D x H)	242 x 152 x 35 mm
Power Requirements	100-240VAC, 50-60 Hz@DC12V 2A
Power Consumption	12W
Protocols and Standard	
FXO	Dial Mode: DTMF/Pulse Dialing Caller ID: FSK, DTMF Reverse Polarity Answer Delay Busy Tone Detection No Current Detection

Voice & Fax	G.711A/U law, G.723.1, G.729A/B, G.726 Silence Suppression Comfort Noise Generation (CNG) Voice Activity Detection (VAD) Echo Cancellation(G.168), with up to 128ms Adaptive (Dynamic) Jitter Buffer Programmable Gain Control T.38/Pass-through Modem/POS DTMF mode: Signal/RFC2833/INBAND VLAN 802.1P/802.1Q Layer3 QoS and DiffServ
VoIP	Protocol: SIP v2.0 (UDP/TCP),RFC3261,SDP,RTP(RFC2833), RFC3262, 3263,3264,3265,3515,2976,3311 SIP TLS/SRTP RTP/RTCP, RFC2198, 1889 RFC4028 Session Timer RFC3266 IPv6 in SDP RFC2806 TEL URI RFC3581 NAT,rport Outbound Proxy DNS SRV/A Query/NATPR Query SIP Trunk Early Media/Early Answer NAT:STUN, Static/Dynamic NAT
Network	Static/Dynamic IP PPPoE DHCP Client IPv4/IPv6 TCP, UDP,TFTP, FTP, ARP,RARP, Ping, NTP, SNTP, HTTP/HTTPS, DNS Ping/Tracert DHCP Option 66,120,121 OpenVPN
Software Features	Port Group Web ACL Telnet ACL Action URL Digitmap Routing Rules based Prefixes Caller/Called Number Manipulation Speed Dial
Management	SNMP v1/v2c/v3 TR069, TR181 Auto Provisioning Web/Telnet Configuration Backup/Restore Firmware Upgrade via Web CDR Syslog Network Capture NTP/Daylight Saving Time IVR Local Maintenance
Environments	
Operating Temperature	0 ~ 50 degrees C
Storage Temperature	-20 ~ 80 degrees C
Operating Humidity	10%~90% relative humidity, non-condensing
Emission	CE, FCC

Ordering Information

VGW-420FO	4-Port SIP VoIP Gateway (4 FXO)

Related Products

VGW-420FS	4-Port SIP VoIP Gateway (4 FXS)
VGW-820FS	8-Port SIP VoIP Gateway (8 FXS)
VGW-1620FS	16-Port SIP VoIP Gateway (16 FXS)
VGW-2420FS	24-Port SIP VoIP Gateway (24 FXS)
VGW-3220FS	32-Port SIP VoIP Gateway (32 FXS)
VIP-1140PT	High Definition Color PoE IP Phone with (4-line)
VIP-1260PT	High Definition Color PoE Gigabit IP Phone
ICF-1900	High Definition Touch Color Screen Smart Media Android SIP Conference Phone
VIP-462DG	802.11g SIP DECT VoIP Router
HDP-1260PT	1080p SIP Vandalproof Door Phone with RFID and PoE
HDP-1261PT	1080p SIP Vandalproof Door Phone with RFID and PoE
HDP-5260PT	720p SIP Multi-unit Apartment Vandalproof Door Phone with RFID and PoE
VTS-700WP	7-inch SIP Indoor Touch Screen PoE Video Intercom with Built-in Wi-Fi
IPX-330	Internet Telephony PBX System (30 user registrations)
IPX-1800N	Internet Telephony PBX system with ISDN support (30 user registrations, 4 x ISDN)
IPX-2100	Internet Telephony PBX System (100 user registrations)
IPX-2200	Internet Telephony PBX System (200 user registrations)

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