802.11n Wireless VoIP Router

Integrating the cutting edge of Internet Telephony and VoIP Router manufacturing experience, PLANET now introduces the latest member of PLANET Wireless VoIP Router family: the VIP-281SW.

The VIP-281SW provides not only high-quality voice communications and wired Internet sharing capabilities but also the Access Point (AP) function for flexible wireless communication. With advanced router and VoIP DSP processor technology, the VIP-281SW is able to make calls via SIP proxy voice communications plus the IP sharing and the QoS mechanism.

By applying the VIP-281SW, home users and companies are able to save installation cost and extend the VoIP network from their previous investments in telephones, conferences and speakerphones. The VIP-281SW is equipped with two telephony interfaces, so users may register to different SIP proxy servers and establish up to 2 concurrent VoIP calls for more flexibility in the voice communications. The VIP-281SW can also be the bridge between traditional analog telephones and IP network with an extremely affordable investment.

With built-in IEEE 802.11b/g/n wireless network capability, the VIP-281SW allows any computer and wireless enabled network client connect to it without additional cabling. The 802.11n wireless capability gives users the highest speed of wireless experience ever. With an 802.11n compatible wireless adapter installed in your PC, the files can be transferred at up to 300Mbps. The radio coverage is also doubled to offer the high speed wireless connection even in a wide space of your office or house.

To secure the wireless communication, the VIP-281SW supports most up-to-date encryption: WEP, WPA-PSK and WPA2-PSK. In addition, the VIP-281SW supports WPS configuration with PBC/PIN type for users to connect to a secured wireless network easily.

KEY FEATURES

PRODUCT FEATURES

- IEEE 802.11b/g/n wireless standard compliant
- Multi-mode: AP, AP-Client Mode
- Smart QoS mechanism to ensure the voice quality
- Auto-Provision feature for flexible, ease-of use system integration
- NAT Router, Port Forwarding, DMZ
- IP ToS (IP Precedence) / DiffServ
- Voice prompt for machine configurations
- Supports 64/128-bit WEP, WPA, WPA-PSK, WPA2, WPA2-PSK and 802.1x encryption

VOIP FEATURES

- SIP 2.0 (RFC3261) compliant
- Up to 2 concurrent VoIP calls
- Voice codec support: G.711, G.729AB, G.723, G.276, GSM and G.722
- T.38 FAX transmission over IP network (G.711 Fax pass-through)
- In-band and out-of-band DTMF Relay (RFC 2833)
- 3-Way conference calls
- Call Waiting / Forward / Transfer / Hold / Resume
- Caller ID Detection / Generation: DTMF, BELLCORE, ETSI, BT, NTT
- Voice processing: VAD, CNG, Dynamic Jitter Buffer, G.168 Line Echo Cancellation
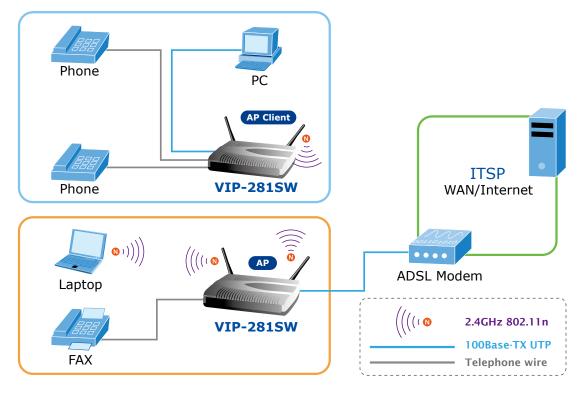- SNMP v1/v2 and Auto Provision management

APPLICATIONS

VIP-281SW Communications

Phone
PC
AP Client
Phone
VIP-281SW
ITSP
WAN/Internet
Laptop
AP
VIP-281SW
ADSL Modem
FAX
2.4GHz 802.11n
100Base-TX UTP
Telephone wire

SPECIFICATION

Product	802.11n Wireless VoIP Router
Model	VIP-281SW
Hardware	
WLAN Standards	IEEE 802.11 b/g/n
Wireless Frequency Range	2.4GHz ~ 2.4835 GHz
Wireless Mode	AP, Client, WDS and AP+WDS mode
Security	64/128 bit WEP data encryption, WPA, WPA-PSK, WPA2, WPA2-PSK, WPA/WPA2 mix mode, 802.1x encryption and WPS PBC
Operating Frequencies / Channel	USA/Canada: 2.412 GHz – 2.426 GHz (11 channels) Europe: 2.412 GHz – 2.472 GHz (13 channels) Japan: 2.412 GHz – 2.477 GHz (14 channels)
Wireless Data Rate	IEEE 802.11b: CCK (11Mbps,5.5Mbps), DQPSK (2Mbps), DBPSK (1Mbps) IEEE 802.11g: OFDM (54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps, 6Mbps) IEEE 802.11n: 14/29/43/58/87/116/130/144Mps in 20MHz, 30/60/90/120/180/240/270/300Mbps in 40MHz
Antenna	2 x 2dBi Detachable Antenna
WDS	WDS repeater support
WAN	1 x 10/100 Base-TX RJ-45 port
LAN	4 x 10/100 Base-TX RJ-45 port
FXS (for telephone set connection)	2 x RJ-11 connection
Protocols and Standard	
Standard	SIP 2.0 (RFC3261), SDP (RFC 2327), Symmetric RTP, STUN (RFC 3489), , ENUM (RFC 2916), RTP Payload for DTMF Digits (RFC2833), Outbound Proxy Support, uPnP (UPnPTM)
Voice codec	G.711(A-law /μ-law), G.729AB, G.723 (6.3 Kbps / 5.3Kbps), G.276 (16,24,32,40 Kbps), GSM and G.722
Fax support*	T.38 (G.711 Fax pass-through)
Voice Standard	VAD (Voice Activity Detection) CNG (Comfort Noise Generation) G.168: LEC (Line Echo Canceller) Dynamic Jitter Buffer In-band and out-of-band DTMF Relay (RFC 2833) Caller ID Detection/Generation: DTMF, BELLCORE, ETSI, BT, NTT
Protocols	SIP 2.0 (RFC-3261), TCP/IP, UDP/RTP/RTCP, HTTP, ICMP, ARP, DNS, DHCP, NTP/SNTP, PPP, PPPoE
Internet features	NAT router, DHCP server, Static routing, Virtual server, Virtual DMZ, Smart QoS, IP ToS (IP Precedence) / DiffServ
Security	Built-in NAT Firewall MAC / IP / Port Filtering URL Filtering Port Forwarding, DMZ Password protection for system management
Network and Configuration	
Access Mode	Static IP, PPPoE, DHCP
Configuration & Management	Web-Based Graphical User Interface Remote management over the IP Network Web-Based firmware upgrade Backup and Restore Configuration file SNMP v1/v2, Auto-Provision, Keypad on telephone set
Dimension (W x D x H)	186 x 143 x 35 mm
Operating Environment	0~50 Degree C, 5~90% humidity
Power Requirement	12V DC
EMC/EMI	CE, FCC Part 15 Class B

ORDERING INFORMATION

VIP-281SW	802.11n Wireless VoIP Router (1 x WAN, 1 x LAN, 2 x FXS)

C-VIP-281SW