

# Product Specifications

2 FXS SIP Analog Telephony Adapter

**VIP-157S**

Release 6.0

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Change History:

Revision	Date	Author	Change List
Version 6.0	2017/10/02	Jonas Yang	Hardware reversion

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## 1. PRODUCT DESCRIPTION

### PLANET 2 FXS VoIP Adapter

PLANET VIP-157S Analog Telephone Adapter provides the same voice quality and reliability that users have come to expect from PLANET ATAs.

The VIP-157S is a **2-port** Analog Telephone Adapter that features 2 FXS connections, so you can connect 2 analog phones, an **analog phone** and a **fax machine**, which allow you to use your existing analog phones or fax machines to make calls using the internet. The VIP-157S supports **T.38 fax** and works with most SIP-based Internet service providers (ISPs). The VIP-157S is a great choice for voice service providers because it is completely customized **auto-provisioning** and **auto-update**. If you want to have the world's leading VoIP service, you need to have the world's leading VoIP device!

Cost-effective, easy-to-install and simple-to-use, the VIP-157S converts standard telephones to IP-based networks. The service providers and enterprises can offer users traditional and enhanced telephony communication services via the existing broadband connection to the Internet or corporation network.

### Professional Application

The VIP-157S includes two Ethernet interfaces for Internet (PPPoE, DHCP or Fixed IP), or office LAN connection. Besides the **IPv6**, **VPN** (PPTP and L2TP), **VLAN** and **PLANET Easy Dynamic DNS** features, the VIP-157S is an intelligent low-density Voice over IP (VoIP) gateway that enables carrier-class residential and business IP telephony services delivered over broadband or high-speed Internet connections to two standard RJ11 telephones. The 10/100 LAN port allows internet connectivity to be extended to a second device eliminating the need for a second Ethernet drop.

Calls from your VIP-157S to any other device on any VIP-157S device anywhere in the world are always free! The VIP-157S allows you to use your analog devices with any SIP trucking provider. Simply plug the Analog Telephone Adapter into your broadband router and then plug your analog devices into the ATA. The VIP-157S also can connect to your broadband router and to another IP device such as a PC. The 2-port RJ45 router has integrated **QoS** to ensure your voice traffic is prioritized above other types of traffic. It will support up to **5 VoIP services or SIP accounts**.

When used with a SIP service provider, you will enjoy value-added features such as message waiting indication (MWI), hotline, three-way conferencing, caller ID, call forward (always, busy and no answer), call waiting, Do Not Disturb (DND), dial plan and phone book. Using a VIP-157S with an analog phone as an IP PBX telephone system gives you a special feature at a consumer price; the VIP-157S can be seamlessly integrated into the telephony network built by our IP PBX system series. The VIP-157S and PLANET IP PBX System (IPX-330/IPX-2100/IPX-2200/IPX-2500) are the best combination of your office daily

communications.

### **Compliant with IETFSIP 2.0**

SIP service continues to gain popularity among businesses as the preferred protocol for enhancing communication across IP networks. The VIP-157S supports **Session Initiation Protocol 2.0 (RFC 3261)**, **STUN** and **Outbound Proxy** for easy integration with general voice over IP system. The VIP-157S is able to broadly interoperate with equipment provided by VoIP infrastructure providers, thus enabling them to provide their customers with better voice over IP services.

### **Convenient Design Brings Quality Communication**

Based on years of VoIP manufacturing experiences, PLANET VoIP total solutions are known as advanced implementation of standard-based telephony along with mass deployment capability.

The VIP-157S is the lowest cost, fastest deployment ready ATA with auto-provision. The VIP-157S can be deployed directly to customers, redirecting automatically to your provisioning server or you can use the **TR069** ITSP portal for target profiles.

With the VIP-157S, enterprises are able to save the installation cost and extend their past investments in telephones, conference and speakerphones. The VIP-157S can be the bridge between the traditional analog systems and IP network with an extremely affordable investment.

## 2. PRODUCT FEATURES

### Product features

- Feature-rich telephone service over home or office Internet/Intranet connection
- Auto-provisioning features for flexible, ease-of use IP PBX system integration
- Up to 2 concurrent VoIP calls
- Voice prompt for machine configurations
- Quick Setup Wizard for easy configuration
- Easy access with PLANET Dynamic DNS
- Cost effective, field proven compatibility and stability

### VoIP features

- IETF SIP 2.0 (RFC3261) compliant
- Supports SIP Outbound proxy, STUN (RFC 3489)
- Up to 5 Proxy server registrations
- Peer-to-Peer/SIP proxy (IP PBX) calls
- T.38 fax transmission over IP network
- Call Hold/Forward/Transfer/Waiting
- Local Phone book (Export /Upload)
- In band and out-of-band DTMF support
- Voice codec support: G.711, G.723, G.726, G.729
- Voice processing: Voice Active Detection, DTMF detection/generation, G.168 echo cancellation (16mSec.), comfort noise generation

### Management

- Auto-provisioning/auto-update support (FTPP, HTTP, FTP)
- IPv6 management support
- Remote administrator authentication
- Web-based and telephone keypad machine configuration
- TR-069/VPN connection/VLAN support
- DMZ and MAC clone
- Virtual server/QoS support

### 3. PRODUCT SPECIFICATIONS

#### 3.1 MAIN COMPONENTS

CPU	CM5000
RAM	Winbond W9812G6JH-6/16M SDRAM
Flash	MX 29LV160BTTC -70 16Mb
Ethernet PHY	IC Plus IP175C

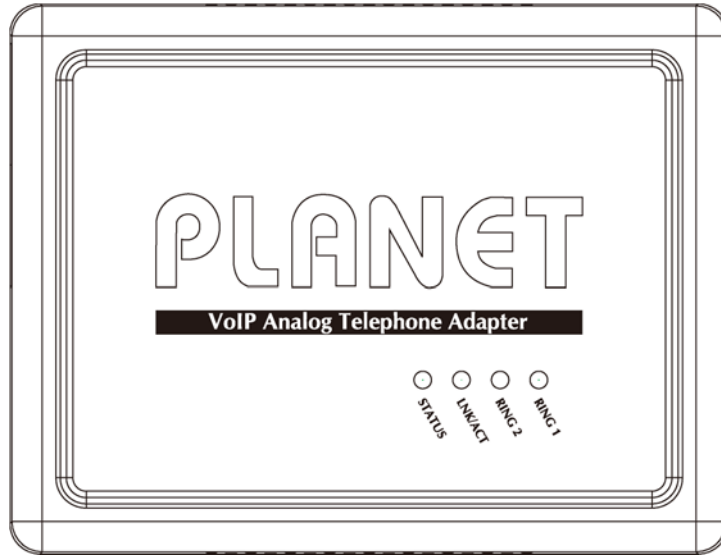
#### 3.2 Functional Specifications

Hardware	
LAN	1 x 10/100Mbps RJ45 port
PC	1 x 10/100Mbps RJ45 port
FXS	2 x RJ11 connection
Protocols and Standard	
Standard	SIP 2.0 (RFC3261), SIP Outbound proxy, STUN (RFC 3489)
Voice Codec	G.711 u-law/a-law, G.723 (6.3k/5.3k), G.726, G.729
Fax Support	T.38, G.711 pass-through
Voice Standard	Voice activity detection (VAD) Comfort noise generation (CNG) Acoustic echo canceller (AEC) G.165: Line echo canceller (LEC) Jitter buffer
Protocols	SIP 2.0 (RFC-3261), IPv4/IPv6 TCP/IP, UDP/RTP/RTCP, HTTP, ICMP, ARP, DNS, DHCP, NTP/SNTP, PPP, PPPoE, VLAN, VPN(PPTP & L2TP), TR069
Network and Configuration	
Access Mode	Static IP, PPPoE, DHCP
Management	Web, keypad
Dimensions (W x D x H)	94 x 72 x 25 mm
Operating Environment	0~50 degrees C, 10~95% humidity
Power Requirement	12V DC
EMC/EMI	CE, FCC Class B

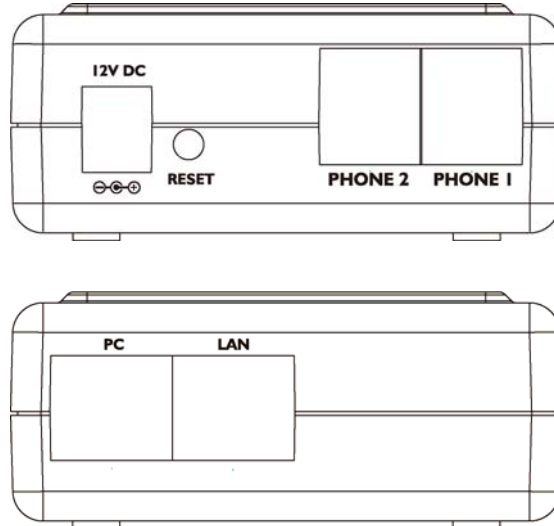
### 3.3 Physical Specifications

Dimensions (W x D x H)	95 x 73 x 25 mm
Net weight	150g

#### Overview



#### Side view



### 3.4 Environmental Specifications

#### Operating

Temperature	0~50°C
Relative Humidity	10~95% (non-condensing)

#### Storage

Temperature	-10~70°C
Relative Humidity	10~95% (non-condensing)

### 3.5 Electrical Specification

Input Voltage	12V DC, 1000mA
Power Consumption	6 watts/20.4 BTU

### 3.6 Regulatory Compliance

FCC, CE

### 3.7 Reliability

MTBF > 50,000Hrs @25 degrees C MIL-STD-781C

### 3.8 BASIC PACKAGING

- Analog Telephone Adapter unit
- Power Adapter
- Quick Installation Guide
- 1 RJ11 Cable

### 3.9 PACKAGE INFORMATION

- **Dimensions (W x D x H)**  
286 x 137 x 69 mm
- **Weight**  
0.5 kg (gross weight)