

## SIP IP Phone with PSTN Connectivity



Meeting the next-generation Internet telephony service demands, PLANET Technology provides feature-rich, toll-quality Internet telephony service solutions. The built-in PSTN interface provides user more convenience between IP Phone and PSTN call selections – VIP-154NT. And the VIP-154NT is the cost-effective SIP IP Phone with PSTN connectivity; the VIP-154NT is SIP 2.0 (RFC3261) compliant with SIP digest authentication supports.

The VIP-154NT features high-quality speakerphone technology, and includes an easy-to-use speaker on/off button and call hold/transfer buttons for various voice services.

The VIP-154NT has additional features such as built-in PPPoE/DHCP clients, password-protected machine management, LCD menu display, speed-dial 3-way conference keys, hands-free speakerphone, last number redial, incoming message indicator, and user-intuitive web administration system.

The VIP-154NT is self-contained, service-integrated, intelligent phone features offering, and powerful voice processing power. The VIP-154NT can effortlessly deliver toll voice quality equivalent to the regular PSTN connections utilizing cutting-edge Quality of Service, echo cancellation, comfort noise generation (CNG) and voice compensation technology.

Meanwhile, the dual Ethernet interfaces on the IP Phone allow users to install in an existing network location without interfering with desktop PC network connections. When installing the VIP-154NT, SIP IP Phone with IPX-2000 (PLANET IP PBX system), and the VIP-154NT IP phones can be easily integrated in your office; via the auto-config support for IPX-2000. No expertise required building up the VoIP network deployment.

Besides, the VIP-154NT is ideal solution for office / home use as well as installation for Internet Telephony Service Provider (ITSP) from leading vendors. It's the delivery platform for IP voice services that makes benefit from the VoIP technologies in your daily life.

### KEY FEATURE

#### *Built-in PSTN (VIP-154NT)*

- The built-in PSTN interface provides user more convenience between IP Phone and PSTN call selections easily

#### *Simple installation and administration*

- Configuration of the VIP-154NT can be performed in minutes via the LCD menu keypad, telnet, or web interfaces. Using the built-in LCD display, the VIP-154NT offers user-friendly configuration guidelines, machine operation status, call status displays, and incoming call identification.

#### *IP PBX system integration*

- Via auto-config support for IPX-2000, no expertise required to establish your office voice network. The VIP-154NT can help you to complete VoIP network deployment in minutes.

#### *Feature-rich keypad IP Phone*

- The VIP-154NT integrates a high-quality speakerphone with the Call Hold, Forward, Transfer and Waiting functions and also provides advanced telephone features, such as 4 speed-dial keys, 3-way conference key, last number redial, incoming call history indicator in a much more convenient and functional manner than traditional telephone sets.

#### *Dynamic IP address assignment, and voice communication*

- The VIP-154NT can act as a PPPoE/DHCP client, automatically obtaining an IP address for Internet access.

#### *Various field applications compliant*

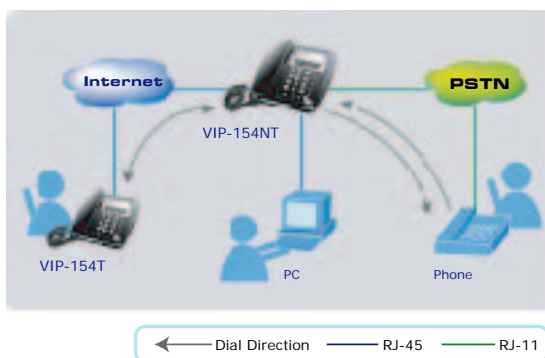
- The VIP-154NT is capable of handling peer-to-peer and SIP proxy / IP PBX registration, authentication to interact with major IP PBX / SIP gateway/IP Phone in the market. The VIP-154NT offers the most flexibility and interoperability with PLANET and 3rd party VoIP vendors, allowing the deployment of both simple and complex VoIP networks such as ITSP, PC-to-Phone/Phone-to-PC, PSTN-to-Phone / Phone-to-PSTN or enterprise VoIP environments.

#### *Standards compliant*

- The VIP-154NT complies with SIP 2.0 (RFC3261), interoperates with 3rd party SIP voice gateways, terminal, software as well as other PLANET VoIP products. Supported Voice codecs and VoIP technologies are: G.723, G.729ab, G.711u-law / a-law; Voice Activity Detection (VAD), and the Comfort Noise Generation (CNG).

**SPECIFICATION**
**Product** SIP IP Phone with PSTN Connectivity

<b>Model</b>	VIP-154NT
<b>Hardware</b>	
<b>LAN</b>	1 x 10/100Mbps RJ-45 Port
<b>PC</b>	1 x 10/100Mbps RJ-45 Port
<b>Telephone Interface</b>	1 x RJ-11 (PSTN connectivity)
<b>LCD Display</b>	2 x 16 characters
<b>Speaker</b>	Full duplex hands free speaker phone
<b>Protocols and Standard</b>	
<b>Standard</b>	SIP 2.0 (RFC3261), MD5 for SIP authentication (RFC2069 / RFC 2617), SIP outbound proxy, SIP NAT Traversal Support STUN (RFC3489)
<b>Voice Codec</b>	G.711: 64k bit/s (PCM) G.723.1: 6.3k / 5.3k bit/s G.726: 16k / 24k / 32k / 40k bit/s (ADPCM) G.729A: 8k bit/s (CS-ACELP) G.729B: adds VAD & CNG to G.729
<b>Voice Standard</b>	Voice activity detection (VAD) Comfort noise generation (CNG) Acoustic echo canceller (AEC) G.165: Line echo canceller (LEC) Jitter Buffer
<b>Supplementary Services</b>	Caller ID 3-way Conference Immediate (unconditional) call forwarding Busy call forwarding No answer calls forwarding
<b>Call History</b>	Call Hold, Waiting, Transferring Record incoming call Outgoing call Missed (not accepted) call history
<b>Protocols</b>	SIP v1 (RFC2543), v2 (RFC3261), TCP/IP, UDP/RTP/RTCP, HTTP, ICMP, ARP, RARP, DNS, DHCP, SNMP, PPPoE
<b>Network and Configuration</b>	
<b>Access Mode</b>	Static IP, PPPoE, DHCP
<b>Management</b>	Web, LCD menu keypad, Telnet, auto-config by IPX-2000, auto-provision by TFTP/FTP/HTTP
<b>Dimension (W x D x H)</b>	170 x 220 x 60 mm
<b>Operating Environment</b>	0~50 Degree C, 0~90% humidity
<b>Power Requirement</b>	12V DC
<b>EMC/EMI</b>	CE, FCC Class B

**APPLICATIONS**
**VIP-154NT Communications via PSTN**

**ORDERING INFORMATION**
**VIP-154NT** SIP IP Phone with PSTN Connectivity (2 x RJ-45, 1 x R-J11 with PSTN Connectivity)