Overview

The latest addition to Vilink's leading-edge Voice over IP family is the voIP-100T IP Phone. A blend of modern VoIP technology and a familiar traditional form factor, the VoIP-100T brings quality voice communication, cost-saving solution, and rich information functionality for small and medium enterprises (SOHO and SME) and ITSP's (Internet Telephony Service Providers). Using an integrated keypad and web administration, users are able toe establish voice communication via an existing Internet connection in minutes.

With its optimized H.323 architecture, the VoIP-100T is the ideal choice for peer-to-peer voice or telephony service deployment solutions. The Vilink VoIP-100T can effortlessly deliver toll voice quality equivalent to regular PSTN connections utilizing cutting-edge Quality of Service (QoS), echo cancellation, comfort noise generation and voice compensation technology. The dual Ethernet interfaces on the VoIP-100T allows users to install it within an existing network location without interfering with desktop PC network connections.

Based on ITU-H.323 standards, the Vilink VoIP-100T supports multiple protocols and interoperates with major other-vendor VoIP hardware and systems as well as the Vilink VoIP family. As a feature-rich IP Phone, the VoIP-100T fulfills your needs. It's simple to use and has additional features such as: built-in PPPoE/DHCP and DDNS clients, a 2 x 24 dot matrix LCD display, hands-free speakerphone, 100-number phonebook, 10 direct-dial hotkeys, 10-set last number redial, 8 one-touch function keys, incoming message indicator, and user-intuitive web administration system.

Applications

♦ **Peer-to-Peer Voice Communication**
Using the built-in PPPoE and DHCP clients, users ca directly connect the VoIP-100T to a xDSL/Cable modem or broadband router to establish voice communications on a broadband internet connection

♦ **ITSP VoIP Network Deployment**
Being a highly interoperable CPE device, the VoIP-100T offers and ITSP flexible centralized VoIP network deployment and a toll quality VoIP telephony service when delivering voice services in an Internet environment.

Features

• **Simple Installation and Administration**
Configuration can be performed in minutes via the keypad, web or telnet interfaces.

• **Feature-rich keypad capabilities**
Integrates a high-quality speakerphone with the usual Mute, Hold, Forward and Transfer functions and also provides advanced telephone features, such as direct-dial hotkeys, last number redial, incoming call message indicator in a much more convenient and functional manner than traditional telephone sets

• **Dynamic IP address assignment**
Acts as a PPPoE/DHCP client, automatically obtaining an IP address for Internet access. Using the built-in DDNS client, the VoIP-100T can offer great convenience to dynamic IP environment users for voice communication on the Internet

• **Various field applications compliant**
Capable of handling both peer-to-peer and Gatekeeper operating environments and offers the most flexibility and interoperability with Vilink and 3rd party VoIP vendors, allowing the deployment of both simple and complex VoIP networks such as ITSP, PC to-Phone/Phone-to-PC or enterprise VoIP environments

• **Standards Compliance**
Complies with ITU-T H.323 v2/v3/v4, interoperates with 3rd party H.323 compliant voice gateways/terminal/software (including H323 fast start) as well as other PLANET VoIP products. Supported Voice codecs and VoIP technologies are: G.723, G.729ab, G.711mu; VAD, CNG, G.168/G.165 echo cancellation
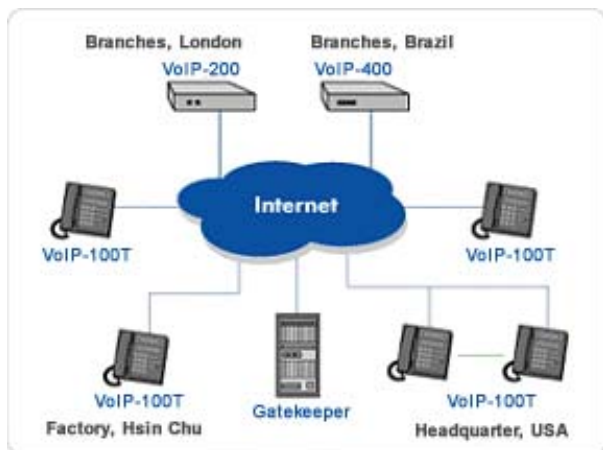
Ordering Information:

Model	Description
VoIP-100T	Ethernett Voice over IP Phone

Specifications

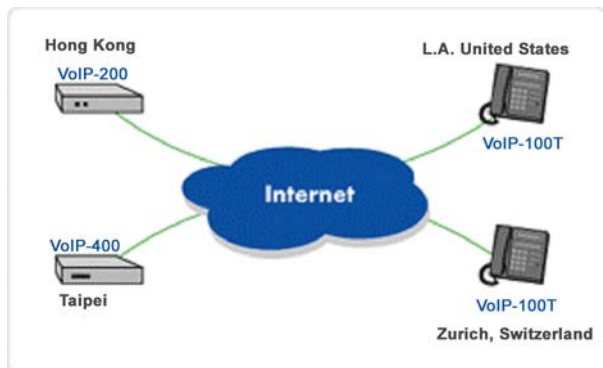**System:**

Ports	2 RJ-45, 10/100Base-T Interface
Protocol	H.323 v2/v3/v4, H.235 Security, H.450 (Call Forward/Transfer/Hold) TCP/IP, HTTP
Voice Codec	G.711 PCM 64kbps (A-law and u-law),
	G.723.1A ACELP/M-MLQ (5.3, 6.3kbps)
	G.729AB (CS-ACELP 8kbps)
Echo Cancellation	G.168/G.165 compliant echo cancellation
Voice Processing	Voice activity detection (VAD)
	In-band and H.245 Out of band DTMF generation/detection
	Echo cancellation (ECN)
	Gain/Attenuation Settings
	Comfort noise generation (CNG)
	Bad Frame Interpolation
	Programmable Dynamic Jitter Buffer
	Call progress detection
	Dial tone, busy tone, call-holding tone and ring-back tone
Call Control	H.323
Management	Keypad Management
	Built-in HTTP server allows management from web browser
	Command line interface allowing management from Telnet
Power	External power adapter, 9VDC
Environmental	Operating Temperature: 0 to 50 deg C
	Storage Temperature: -10 to 70 deg C
	Humidity: 10% to 95% (non-condensing)
Housing	Plastic

ITSP VoIP Network Deployment

In the diagram to the left, a company can build a non-PBX phone system that handles the phone system through an ehternet network. Each user can directly connect his/her PC and the network to the VoIP-100T with the internal two port switch. By way of a central Gatekeeper, all of the networked VoIP-100Ts can make calls easily and efficiently to London, Brazil, or make internal calls. The MIS manager can manage and trace the calls from the Gatekeeper.

Peer-to-Peer Communication

In the diagram to the left, the VoIP-100Ts connected L.A. and Zurich can communicate with each other, other VIlink gateway products such as the VoIP 200/400 (Hong Kong, Taipei), or other interoperable H.323 VoIP devices.

VILINK

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