

Overview

Make calls through Internet now is an ideal way to ease your phone fee for your international business. Use of H.323, and H.450 standard protocol stack, also the most popular CODEC, G.711, G.723, G.726 and G.729, the VoIP products should bring your voice over the internet easily and efficiently.

Vilink's Internet Telephony Gateway VoIP-000 modular design is able to cover the needs from middle size enterprises. To give the customer more flexibility on port number and interface choices, Vilink's VoIP-000 supports two expansion slots for choice of 4 ports FXO, and 4 port FXS modules. The H.323 compatibility helps the VoIP gateway cooperate with any popular H.323 applications or gateways in the marketing like Windows NetMeetings, WebPhone, etc. While ITU G.711, G.723, G.726 and G.729 voice CODEC and compression also helps it to compatible with the world-famous Internet Telephony System like Cisco, RADVision, etc.

Furthermore, VoIP-000 is now able to support DDNS service, which brings great convenience to establish voice communications in a dynamic IP environment. Collaborate connection agents (PPPoE, or DHCP clients), VoIP series built-in DDNS client can help those who don't have static IP address to map dynamic IP address to an easy-to-remember URL, and this will allow other 3rd party voice gateways to connect to VoIP much easier than ever.

Ordering Information:

Model	Description
VoIP-000	8 Port VoIP Internet Telephony Gateway
VoIP-FXS	4-Port VoIP FXO Module
VoIP-FXO	4-Port VoIP FXS Module



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Features

Standards compliant & Surpassing voice quality

Vilink's VoIP-000 is H.323 standard version 3 compliant (including H.323 faststart mode). VoIP-000 is interoperable with 3rd party voice gateways as well as other Vilink VoIP products. Retaining excellent traditions in Vilink VoIP products, VoIP-000 prioritizes voice packets using IP precedence, and combine state-of-the-art technology of voice packet handling, including echo, noise reduction, voice reconstruction and redundancy to provide customers toll quality VoIP communication.

Domain name call & DDNS supports

Either IP or URL addressing, VoIP-000 is able to find, and communicate with destination H.323 gateway/terminal. Meanwhile, DDNS service is very useful to those VoIP gateways deployed in a dynamic IP environment. Collaborate connection agents (PPPoE, or DHCP clients), built-in DDNS client in VoIP-000 can help those who don't have static IP address to map dynamic IP address to an easy-to-remember URL, and this will allow other 3rd party voice gateways/terminal to allocate position of VoIP much easier than ever. (To establish voice communication via domain name, please make sure the other party gateway/terminal supports domain name call.)

VoIP and FoIP codec support

Voice codec: G.723, G.726, G.729ab, G.711mu support.
FAX: T.30, T.38 coding supports.

Surpassing voice quality and network conversion

Utilizing state-of-the-art technology of voice packet handling, including echo, noise reduction, voice reconstruction and redundancy, provide superior sound quality. VoIP-000 supports converting telephony protocols (SS7, Analog) between originating and terminating voice gateways or PBX system, in a heterogeneous signal-switching environment.

Specifications

System:

Ports	LAN	1 (10Base-T/100Base-TX, Auto-negotiations)
	Voice	Up to 8 RJ-11 (Two open slots)
H.323 Specification		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)
Fax Support		T.30 Group 3 Modulation formats: V.21, V.27ter, V.17
Simultaneous Connection		8 Channels voice/fax
Voice Processing		VAD (Voice Active Detection), DTMF detection/generation G.168 echo cancellation (16msec), CNG (comfort noise generation) Call progress detection, Gain Control
Protocol		TCP/IP, DHCP, HTTP, DNS, H.323
Advanced Function Management		IP Precedence, PLAR, DDNS RS-232 Console/Telnet, HTTP
LED Indicators		System: 2 power, CPU LAN: 4, Link/ACT, Speed, Collision Voice: 2 per channel (Ringing, Active)
Power		External power adapter, 9VDC
Environmental		Operating Temperature: 0 to 50 deg C Storage Temperature: -10 to 70 deg C Humidity: up to 90% (non-condensing)
Dimension		440 x 245 x 44 mm (rack mountable)

Modules:

	VoIP-FXO	VoIP-FXS
Signaling	Loop Start/DTMF	
No. of Channels	4	
Interface Connectors	4 RJ-11 2-pin modular jacks	
Line Impedance	600 ohm, 900 ohm	
Insertion Loss	2 dB nominal	
Frequency Response	300Hz ~ 3400Hz +/- 2dB w.r.t. 1004Hz	
Return Loss	≥ 18dB	
Input Level Adjustment	-6 dB to +6 dB	
Output Attenuation	0 dB to 13 dB	
Longitudinal Balance	≥ 45 dB	---
Ring Voltage	---	50Vms Nominal
Ringing Tone	---	16.67Hz, 20Hz (default), 25Hz or 50Hz



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