

Skyliance Network

Skylink IP-phone Series

Standard-based fidelity VoIP Phoneset for Carriers and Enterprises



SKYLINK GATEWAY

Skylink IP-Phone is stand-alone type Internet phone which is using the internet network access technology connecting both internet and public telephony network. The phoneset allow user to make a real time and full-duplex call over either networks.

With VoIP technology, the phoneset allows the company to leverage their LAN to carry voice traffic with reinvesting cabling infrastructure, and achieve cost saving on long-distance or international calls over inexpensive internet access.

The Skylink IP-phone series based upon the International Telecommunications Union's H.323 multimedia standards provide underpinnings for transmission of real-time, high quality, voice over IP packet over networks such as the Internet, and private intranet and extranet.


The Skylink IP Phone can supports multi-function integration of UMS, E-Mail, SMS, and PSTN in the same device to allow a friendly use.

Together with the Skylink gateway series product, the solution can enable PBX services over the wide area data network, breaking the barrier due to spatial office location.

FEATURES AND BENEFITS

- Switchable PSTN and IP calls
- H.323v2 compliant (Direct/Gatekeeper routed)
- G.711, G.729ab and G.723.1 coders
- Built-in LAN hub
- Graphical LCD (128x64)
- NAT support
- ADSL support
- DHCP Client Support
- One touch memory / Phone book
- Caller ID function
- SMS / Messaging function (optional)

Technical Specifications

Performance	<ul style="list-style-type: none"> - Processor Orion, 50 MHz - Main Memory: 8MB DRAM - DSP TI TMS320C5472 - 100MIPS - Operating System VxWorks - Flash Memory 2MB
Protocols/Standards	<ul style="list-style-type: none"> - Networking Protocols - FTP, TCP/UDP, DHCP, BOOTP - Call Signaling - H.323 - Quality of Service
Audio	<ul style="list-style-type: none"> - Audio Vcoders Supported- G.711, G.729A/B, G.723.1 - Separate Volume Controls for Speaker, Handset and Ringer Volume Buttons
Network Interfaces/Connectors	<ul style="list-style-type: none"> - System boot from Flash memory - Ethernet - 2 Port, PSTN - 1 Port - RJ 45/100MB ports with integrated switch - RJ 11 Port with PSTN
Display	<ul style="list-style-type: none"> - STN LCD Display - 128X64 resolution - Black and White / Text and Graphics
Controls/Indicators	<ul style="list-style-type: none"> - Volume Buttons - 30 digit keypad - Speaker Phone, MIC and Headset - Ethernet LED Activity
Power	<ul style="list-style-type: none"> - Input : AC100~250V 50~60Hz - Output : DC5V, 1A
View	

Features:

Telephony Interface:

Physical Interface Loop start FXO (RJ-11)

Programmable Line Interfaces Factory configurable line impedance

Data Network Interface:

Physical Interface 1 10/100Base-T, RJ 45
TCP/IP on Ethernet (NAT supported)

Protocols H.323 (Normal/Fast-start mode, H.245 Tunneling),
Support Direct and Gatekeeper routing mode

Voice coders support ITU-T G.711 u-law, G.723.1, and G.729A/B, auto-switching
(Frame-rate: 1 – 8 / packet)

Fax N/A

Others:

Simultaneous connections 1 channels voice

Media processing Automatic Gain Control
G.168 Echo Cancellation (16 ms)
Voice Activity Detection (VAD) with Comfort Noise Generation (CNG)
Call Progress Detection
DTMF Detection/Filtering/Regeneration (Outband)

Call Control Support Gatekeeper authentication, authorization and accounting, routing
control and gateway mapping
Call Accounting Information via Gatekeeper

Management Built-in TELNET remote management
Support external SNMP agents for active polling

System Upgrade Flash memory and built-in TFTP allowing firmware and feature upgrade via
network

System Architecture Standard Arm-based Processor and DSPs
Flash Memory, with Programmable Line/Station Interface

System Specification:

<i>Data Network</i>	Standard 10/100-BaseT Ethernet RJ-45 interface
<i>Voice Network</i>	RJ 11 / RJ 45 loop-start interfaces
<i>Power Requirement</i>	5 Vdc (with 90-260Vac adaptor)
<i>Operating Environment</i>	Operating temperature: 32 to 122 F (0 to 50 C) Storage temperature: 14 to 140 F (-10 to 60 C) Relative humidity: 10% to 95% (noncondensing)
<i>Compliance</i>	CE FCC part 15 A FCC part 68 EMC Certification (Pending)

Analog line Specifications:

	<u>Analog line port</u>
<i>Signaling</i>	Loop Start / DTMF
<i>No. of Channels</i>	1
<i>Interface Connectors</i>	RJ 11 2-pin modular jacks.
<i>Line Impedance</i>	600 Ω / 900 Ω (PRC) Hardware Configurable Line impedance
<i>Insertion Loss</i>	2 dB nominal.
<i>Frequency Response</i>	300Hz ~ 3400Hz +/- 2dB w.r.t. 1004Hz.
<i>Return Loss</i>	\geq 18 dB
<i>Input Level Adjustment</i>	-6 dB to +6 dB.
<i>Output Attenuation</i>	0 dB to 13 dB.
<i>Longitudinal Balance:</i>	\geq 45 dB
<i>Protection</i>	Lighting protection <400V