

# SBO500

## Transcoding VoIP Gateway

Synway  
VoIP Gateway

### Brief Introduction:

With the popularity of IP communications, increasing need for transcoding between various protocols and coding formats becomes more important. Large-capacity VoIP applications call for high efficient transcoding functionality. Normally, designated hardware-enabled transcoding equipment, not software-based, would be the best option for high demanding VoIP carrier.



To address the transcoding issue, Synway's hardware-based SBO transcoding gateway could help VoIP operators achieve multiple transcoding in IMS or PSTN network.

SBO adopts 1U standard design and built in LINUX OS based upon POWERPC+DSP hardware infrastructure. Each chassis supports dual Ethernet interfaces. With transcoding, routing, number filtering, number transformation and other functionalities, SBO serves as the perfect connectivity point between IP network and any IP devices.

### Key Features and Benefits:

- **Compliance with diverse protocols**

Supports SIP signaling protocols: SIP V1.0/2.0, the RFC3261); diverse codecs: G.711A, G.711U, G.729, G723, G722, AMR, iLBC DTMF mode RFC2833, SIP info, INBAND; Network protocols: TCP / UDP, HTTP, ARP/ RARP, DNS, NTP, TFTP, Telnet, STU.

- **User-friendly GUI**

With web-based management software, you can administrate and configure the SBO gateway remotely and check running status, call statistics, call routing, etc.

- **Optimize Communication Efficiency**

Process large capacity voice forwarding and up to 500 concurrent IP transcoding, ensuring high efficiency for whole VoIP system. With SBO transcoding capability, systems could handle highly scalable surging calling traffic. With intelligent routing

configurations, SBO could conduct flexible IP-IP routing in distributed or centralized communication system.

- **Advanced Features for Different Network Environments**

Supports dual Ethernet interface for telecom redundancy. With number transformation and filtering functionality, SBO could remove the head or end of number, or add a prefix or suffix, while needed.

- **Embedded Infrastructure, Crystal Clear Voice Quality**

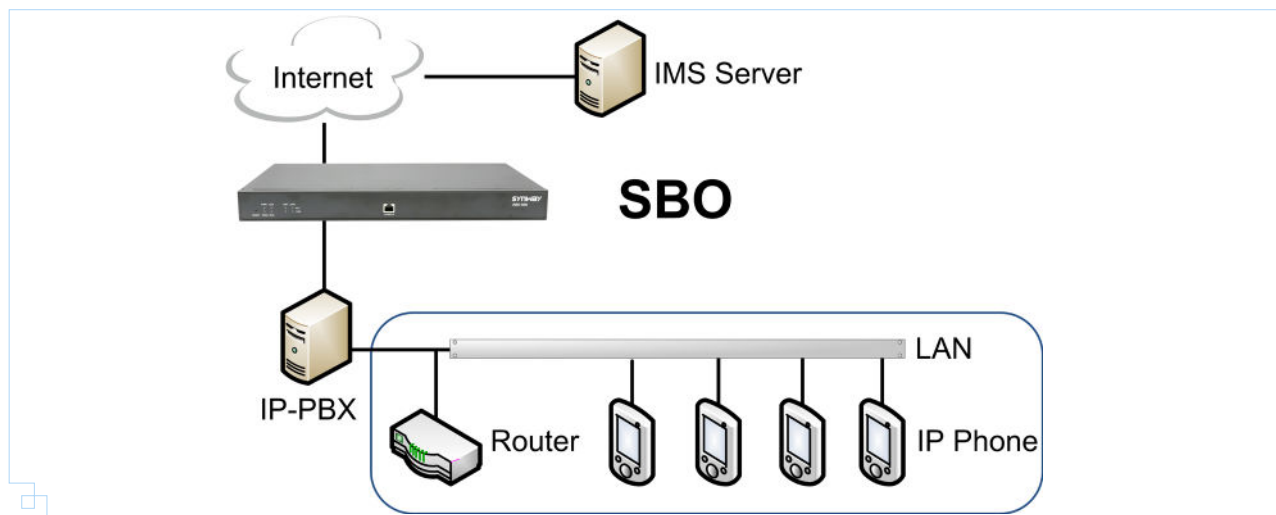
Introducing embedded hardware for transcoding, as well as Telco-grade echo cancellation technology to ensure HD voice quality. SBO gateway also embraces dual power for redundancy.

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### Typical Application:



### Functional Description

- **Dimensions**

440mm\*44mm\*267 mm

- **Weight**

3.1kg

- **Environment**

Operating temperature: 0℃ -55℃

Storage temperature: -20℃ -85℃

Operating Humidity: 8%— 90% non-condensing

Storage humidity: 8%— 90% non-condensing

- **Input/output Interface**

Amount: 2(10/100/1000 BASE-TX(RJ-45))

Self-adaptive bandwidth: Supported

Auto MDI/MDIX: Supported

- **Console Port**

Amount: 1(RS-232)

Baud rate: 115200bps

Connector: RJ45

Data bits: 8 bits

Stop bit: 1 bit

Parity: Unsupported

Flow control: Unsupported

Note: Please configure the console ports according to the above configurations to avoid abnormal situations.

- **Power Requirements**

Input voltage: 100-240V AC

Maximum power consumption: ≤22W

- **Signaling Protocols**

SIP: SIP V1.0/2.0, RFC3261

- **Audio Encoding & Decoding**

G.711A 64 kbps

G.711U 64 kbps

G.729 8 kbps

G723 5.3/6.3 kbps

G722 64 kbps

AMR 4.75/5.15/5.90/6.70/7.40

/7.95/10.20/12.20kbps

iLBC 15.2 kbps

- **Sampling Rate**

8 kHz

- **Safety**

Lightning resistance: Level 4

[www.synway.net](http://www.synway.net)

Connect Synway



As a major manufacturer and supplier of communication products and solutions, Synway specializes in providing superior Multimedia Gateway, Integrated Multimedia Switch, Telephony Hardware in use for Telecom communications. Since 1995, over 3,000 service providers, software developers and system integrators have deployed Synway's offerings to deliver a broad range of TDM and VoIP-based applications worldwide, including Unified Communications, SIP Trunking, Call Center, Mobile VAS, Faxing, Conferencing, Call Recording as well as Asterisk-based Open Source Applications. With dedicated teammates and well-known premium services, Synway makes consistent efforts to deliver partners with a variety of customizable, high-performance and cost effective voice communications products.

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