

- Dedicated DSP and Processor Chipsets for 0~500Chs Transcoding
- Decades of Field-Proven Technologies for Highest Level of Security
- Standardize Diverse Proprietary SIP protocols in Global Networks
- Support Intelligent Network Monitoring, Management & Diagnosis

With the development of VoIP technology, VoIP communication applications for enterprise, service providers and carriers become ubiquitous. To empower them to harness and exploit IP-based communication networks efficiently and effortlessly, Synway's new generation session border controller, SBC500, redefines and safeguards smooth interoperability among diverse multimedia applications, complete standardization among different IP protocols and the highest level of security in any networks.

SBC(Session Border Controller), an organic component of communication solution, often is implemented as connection point between internal and external networks, being used for bridging IP-based multimedia transmission among different IP network and ensuring communication security in networks of enterprises, services providers and carriers.



Key Features and Benefits

- **Basic Features and Functions**

- Dos/DDos protection
- QOS/ TOS/DSCP setting
- Signal encryption(TLS/IPSec)
- Media encryption(SRTP)
- NAT transverse

- SIP/H.323/H.248 interworking

- Support IPV4, IPV6 and VPN
- Load balancing
- Transmission speed limit
- RTP encoding/decoding
- Redundancy and Backup

- **Flexible Scalability for Enterprises, SPs, Carriers**

1-500 simultaneous SIP sessions with dedicated DSP-powered multimedia-transcoding provide high performance in a small footprint to help lower ownership cost and reassure high security at borders.

- **Ensure Highest Level of Operational Security**

SBC500 offers real-time communication surveillance solution for enterprises/SPs/carriers communication systems, and helps them deliver any business-driven applications effortlessly and safely.

- **Deliver Hi-Flexibility for Session Management**

Secure connectivity and controlling can be offered by SBC500, as it efficiently supports bilateral and multilateral interconnection among different networks; besides, Dialing and IP/PSTN routing available.

- **Improve Communication Integration Capability**

SBC bridges operators with enterprise communication networks seamlessly, rationalizes traffic, streamlines business procedures, and optimizes SIP trunking, PBX/H.323/SIP and VoIP applications.

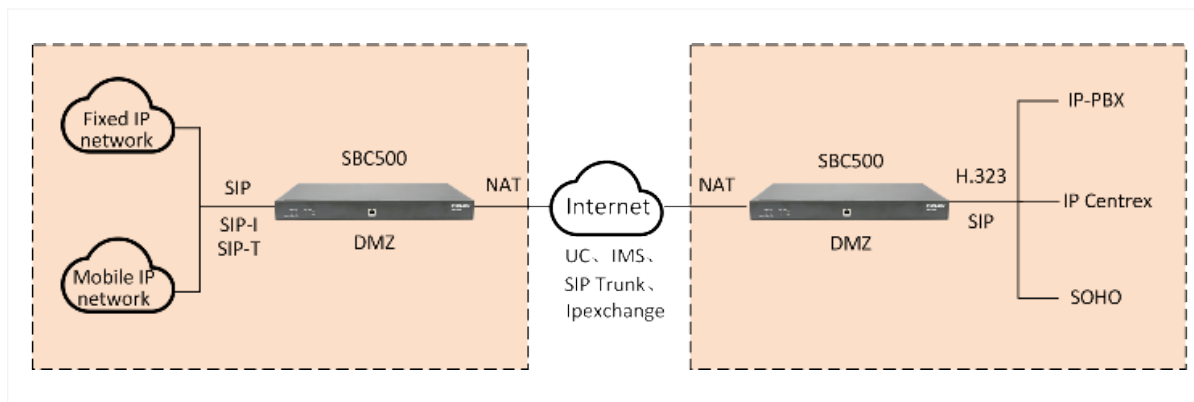
- **Balance Resources and Optimize Loading**

Load protection at the border of network provides highly differentiated voice and multimedia services through multi-level resource-balancing policies, registration limit, ID authentication and authorization.

- **Integrated Transcoding for Voice & Video**

Eliminate need to add separate hardware to support transcoding requirements, and support a range of Codecs, including G.723, G.729, G.711, iLBC, SIPINFO, RFC2833, RF3261, INBOUND and more.

Typical Application



- Improve communication security at the border between internal and external networks

Technical Specifications

- **Sessions**

30/60/120/240/480, Upgrade by license

- **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:115,200bps
Connector:RJ45/Customizable
Data bits:8 bits
Stop bit:1 bit
Parity:Unsupported
Flow control:Unsupported

- **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 4.75/5.15/5.90/6.70/7.40/7.95/10.20/12.20 kbps

iLBC 15.2 kbps

- **Dimensions**

LxHxW=440mm*44mm*267 mm

- **Net Weight**

3.1kg

- **Environment**

Operating temperature:0°C-45°C
Storage temperature:-20°C-85°C
Operating Humidity:8%-90% non-condensing
Storage humidity:8%-90% non-condensing

- **Power Requirements**

Input voltage:100-240V AC
Maximum power consumption:≤22W

- **Sampling Rate**

8 kHz

- **Safety**

Lightning resistance:Level 4

About CarpeStar

As a major manufacturer and supplier of communication products and solutions, CarpeStar specializes in providing superior Multimedia Gateway, Integrated Multimedia Switch, Telephony Hardware in use for Telecom communications.

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