

# SBC1000 Session Border Controller

## Overview

Dinstar SBC1000 provides rich SIP-based services such as safe network access, robust security, system interworking, flexible session routing & policy management, QoS, media transcoding and media processing for small-and-medium telecommunication operators. With distributed multi-core processor, rear panel for non-blocking gigabit switching data network, embedded Linux operating system, SBC1000 delivers high capability while achieves low power dissipation.

It supports 500 concurrent SIP sessions and transcodes up to 200 concurrent calls, and allows encrypted sessions via TLS and SRTP. The session border controller supports transcoding of G.729, G.723, G.711, G.726, iLBC, AMR and OPUS. Besides, it also supports WebRTC, allowing desktop and mobile browsers to initiate and receive calls to/from your SIP service over websocket and WebRTC completely transparently.

## Key Features

- Supports up to 500 SIP sessions and 200 transcoding sessions
- Support WebRTC2SIP to turn WebRTC client into a phone with audio capability
- SIP trunks & flexible routing rules for accessing IMS
- Embedded VoIP firewall, prevention of DoS and DDoS attacks
- Bandwidth limitation and dynamic white list & black list
- QoS, static route, NAT traversal
- Import & export of remote upgrade and configuration data
- User-friendly web interface, multiple management ways

## SBC1000



## Physical Interfaces

Ethernet Ports:

- 4\* 10/100/100M Base-T Ethernet ports
- 1\* 10/100/100M Base-T (Admin)
- 1\* USB 2.0

Serial Console

- 1\* RS232, 115200bps, RJ45

## Media Capabilities

Voice, FAX support

Codecs: G.729, G.723, G.711, iLBC,

G.722, OPUS

RTP Transcoding

Pass-through fax

No RTP detection

One-way audio detection

RTP/RTCP,SRTP

RTCP statistics reports

DTMF: RFC2833/SIP Info/INBAND

Silence Suppression

Comfort Noise

Voice Activity Detection

Echo Cancellation

Adaptive Dynamic Buffer

## Environmental

Power Supply: 1+1,100-240VAC, 50/60 Hz

Power Consumption: 15W

Operating Temperature. 0 °C ~ 45 °C

Storage Temperature: -20 °C ~80 °C

Humidity: 10%-90% Non-Condensing

Dimensions (W/D/H): 437\*302\*44mm

Unit Weight: 4.5 kg

## Capabilities

Concurrent Calls:

- Supports up to 500 SIP sessions

Transcoding:

- Supports up to 200 transcoding calls

CPS for Call:

- 25 calls per second at maximum

Registrations:

- Maximum SIP registrations: 5000

CPS for Registration:

- 25 Registration per second

SIP Trunks:

- Unlimited SIP Trunks

## Security

Prevention of DoS and DDoS attacks

Control of access policies

Policy-based anti-attacks

Call Security with TLS

White List & Black List

Access Rule List

Embedded VoIP Firewall

## Call Control

Dynamic load balancing and call routing

Flexible Routing Engine

Call routing base on prefixes

Call routing base on caller/called

number regular express

Call routing base on time profile

Call routing base on SIP URI

Call routing base on SIP method

Call routing base on endpoint

Caller/ Called number Manipulation

TLS mutual authentication

## VoIP

SIP 2.0 compliant, UDP, TCP, TLS

SIP trunk (Peer to peer)

SIP trunk (Access)

SIP Registrations

B2BUA (Back-to-Back User Agent)

SIP Request rate limiting

SIP registration rate limiting

SIP registration scan attack detection

SIP call scan attack detection

SIP anti-attack

SIP Header manipulation

SIP malformed packet protection

Multiple Soft-switches supported

QoS (ToS, DSCP)

NAT Traversal

## Maintenance

Web-bases GUI for Configurations

Configuration Restore/Backup

HTTP Firmware Upgrade

CDR Report and Export

Ping and Tracert

Network Capture

System log

Statistics and Reports

Multiple language support

Centralized management system

Remote Web and Telnet

Port Mapping

Network port binding

Static Routing

Remote capture

Signaling tracking

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**DINSTAR**

## About Us

Founded in 2011 in Shenzhen, DINSTAR is a leading global provider of IP Unified Communication products including VoIP Gateways, IP PBXs, IP Phones and SBCs, we have been delivering more agile, efficient and affordable communication solutions and unparalleled communication experiences to our customers with our reliable, innovative and future-proof products for years. Through our value-added distributors and resellers worldwide, now DINSTAR serves telecom operators, service providers, system integrators, enterprises, SMBs and OEM partners in over 100 countries.