

SBC3000 Session Border Controller

Overview

Dinstar SBC3000 provides rich SIP-based services such as safe network access, robust security, system interconnectivity, 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 as well as embedded Linux operating system, the session border controller delivers high capability while achieves low power dissipation.

It is able to process up to 2000 concurrent SIP sessions and transcode 1200 concurrent calls. Meanwhile, it supports dual control boards and dual hot-swappable power supplies, and allows encrypted sessions via TLS and SRTP. Apart from traditional codecs like G.729, G.723, G.711 and G.726, SBC3000 also supports the transcoding of iLBC, AMR and OPUS.

Key Features

- Supports up to 2000 concurrent SIP sessions
- Support WebRTC2SIP to turn WebRTC client into a phone with audio capability
- Support forwarding of 2000 calls on media, and transcoding of 1200 calls on media and fax
- Triple anti-attacking, embedded VoIP firewall, prevention of DoS and DDoS attacks
- Bandwidth limitation and dynamic white list & black list
- VLAN, IPSec, QoS, static route, NAT traversal
- Import & export of remote upgrade and configuration data
- User-friendly web interface, multiple management ways
- 1+1 high availability with two SBCs, dual hot-swappable power supplies

SBC3000



Physical Interfaces

MCU (Main Control Unit): 1

MFU (Main Function Unit): 4

Ethernet Ports:

4* 10/100/1000M Base-T Ethernet ports

1* USB 2.0

Serial Console

1* RS232, 115200bps, RJ45 each MCU

Power Supply: 2

Media Capabilities

Voice, FAX support

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

OPUS, G.726, AMR

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: AC 100-240V, 50-60Hz

Power Consumption: 70W

Operating Temperature: 0 °C ~ 45 °C

Storage Temperature: -20 °C ~80 °C

Humidity: 10%-90% Non-Condensing

Dimensions (W/D/H): 437×320×44mm

Unit Weight: 6 kg

Capabilities

Concurrent Calls

Supports 2000 SIP sessions at maximum

Transcoding

Supports 1200 transcoding calls

CPS for Call

200 calls per second at maximum

Registrations

Maximum SIP registrations: 10000

CPS for Registration

200 Registration per second

SIP Trunk

Unlimited SIP Trunks

Security

Prevention of DoS and DDoS attacks

Control of access policies

Policy-based anti-attacks

Call Security with TLS/SRTP

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

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-based 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

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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.