KMG SBC 90

SMALL-SIZED SBC MEDIA GATEWAY

KHOMP
www.khomp.com

Main Characteristics

- Integrated SBC:
    - Up to 300 SBC VoIP sessions in bridge mode.
    - Or up to 60 simultaneous SBC VoIP calls with transcoding.
- Support for call classification
- Allows for consultation of numeric portability
- Standard 1U Dimensioning for 19'' rack

Typical Applications

- Call centers
- Indicated for small-sized call centers that require complete management of IP telephony operations including advanced resources.

Comparative table for call capacities of the KMG SBC 90:

Number of SBC calls	Maximum TDM channels	Total calls
240 - Bridge*	60 - G.711 / G.729	300
120 - G.711 <> G.711	60 - G.711 / G.729	120
60 - G.729 <> G.711	60 - G.711 / G.729	60
300 - Bridge*	0	300
180 - G.711 <> G.711	0	180
90 - G.729 <> G.711	0	90

*RTP Bridge mode: it does not allow audio treatment - Analytics

Overview

KMG SBC 90 is a *media gateway* from the Khomp Media Gateway lineup. A low density SBC device, such as B2BUA, designed for small scale scenarios. With the capacity to make up to 300 SIP sessions or up to 90 calls with transcoding, it is equipped with powerful signal processors that convert media and networks protocols. Developed for call center companies that use SIP connections at their work stations, the KMG SBC 90 guarantees secure connection between the local network and VoIP carrier.

Call routing system

Register the call routing with automatic transbording and fallback. Organize the routes by priority, and change the numbers of A and B if necessary, this way providing a wide array of combinations, which include lower cost routes, contingency and fidelization (same operator for origin/destination). Moreover, use routing scripts to facilitate the compliance with several scenarios. All routing information can be stored and made available for analysis through CDR files, generated by KMG SBC 90, with customized format and RADIUS support.

SIP Trunking

Through KMG SBC 90, you can perform SIP connection sessions. This is an ideal solution for companies and institutions with a great demand for communication through IP exchanges, that also seek quality service, flexibility and accessible costs for voice services.

Call classification: KMG Analytics

This powerful call classification algorithm identifies if the call was intercepted by the carrier or if the remote answer is a cellular answering service. It also identifies if the the answering service was automatic or human. That helps monitor the performance of calls made, and reduces operation costs, based on standards pre-registered in the system, specific audio behaviors, and on call signaling.

After identification, the KMG Analytics checks the values configured in the gateway, and then hangs up providing the corresponding cause, which can be customized. It can also issue a notification via SIP Info, with the resulting answering analysis. KMG Analytics operates in all the calls simultaneously, regardless of the number of interfaces in operation on the same gateway, even if the calls are TDM, GSM or VoIP.

For each type of interface, KMG Analytics must be acquired through modular licenses, according to the solution needed. The KMG Analytics modules available for the KMG SBC 90 are:

- KMG Analytics - 30 VoIP: Analytics License for 30 VoIP calls

(Optional item)

SBC VoIP: KMG 30 VoIP License

The KMG SBC 90 has 3 VoIP operation modes: In the G.729 mode, you can install 3 KMG 30 VoIP licenses, for a total of 90 SBC VoIP calls, with transcoding in all calls; in the G.711 mode, you can install up to 6 KMG 30 VoIP licenses, for a total of 180 SBC VoIP calls; in the Bridge mode, you can install up to 10 KMG 30 VoIP licenses, for a total of 300 simultaneous SBC VoIP calls. The use of the KMG Analytics resource (separate license) is only available in the G.729 and G.711 modes. Changing the configuration does not increase the number of channels, which requires the acquisition of additional licenses.

The KMG SBC 90 has 3 network interfaces that can be configured to interconnect up to 3 distinct networks.

Find out more about Khomp SBC resources from our Commercial Consultants.

(Optional item)

Monitoring calls: KMG Monitor

Effective monitoring in *dashboard,* in real time, with intelligent management of calls made by the Gateway, which informs number of calls, average time duration of calls, and hang up causes, besides issuing warnings based on predefined parameters that keep the operation performance high.

(Optional item)

Characteristics and Benefits:

Trunk support
- IP – 2 SIP channels for each SBC VoIP call with the KMG 30 VoIP license

Operation Interfaces
- Interface for configuration via web
- Module for diagnostics via web
- User interface access control
- E1/T1 signaling analyzer (R2 and ISDN)

CODECs supported
- G.711 A-law and μ-law, native to the system, for all interfaces
- G.729a annex B, GSM, DVI, T-38; only with transcoding

System status
- System status via web
- Status of trunks and channels via web
- Detailed diagnosis of the E1/T1 link
- SNMP Support

Call register
- CDR generation (customizable CSV format)
- Channel use monitoring
- Call counters per channel
- Option for download in CSV file (compatible with Microsoft Excel)
- Automatic export via FTP
- RADIUS support

NAT Traversal
- Can be used to interconnect different networks
- External IP configuration
- STUN

Security
- Register authorization
- Fraud Prevention: call blocking by destination and source
- DoS/DDoS prevention
- Topology hiding
- SIP TLS
- SRTP (SDES and DTLS)
- ACL (whitelist and blacklist)

- Malformed packet protection
- Rogue RTP protection

Call Routing
- 150 CAPS (call attempts per second)
- Configuration of alternative routes (automatic transbording and fallback)
- Route fidelization (ability to change the destination number)
- Consultation of portability via web service
- LCR (Least cost routing)
- Routing based on source, destination, time and prioritization
- Failover retry based on failure causes
- Routing script
- Load balancing
- Route Profiles

Survival - SAS
- Forwarding of incoming and outgoing calls
- Transfer with and without consultation
- Automatic proxy fallback

Traffic policing
- Limitation of simultaneous calls per network

Call Admission Control
- Based on local resources
- Call rate limiting

QoS
- DiffServ - RFC 4594
- VLAN Tagging

OAMPT
- Provisioning (configurations export and import)
- Configuration, monitoring, management and diagnostics via Web
- CLI tool
- Generation of signaling and system logs
- Generation of CDR with configurable format
- Interface access control with different user levels
- SNMP Monitoring
- Analysis of call log integrated into the interface (R2/ISDN)

Interworking
- Fax interworking (T.38 with fallback to G.711)
- IPv4 to IPv6
- DTMF translation: RFC 2833, SIP INFO and in-band
- RTP conversion between UDP, TCP, and SRTP (SDES and DTLS)
- SIP conversion between UDP, TCP, TLS, WS and WSS

SIP header manipulation

- Destination number (to) and source number (from) manipulation
- Adding and deleting x-headers
- Total control with routing scripts

- SIP Trunking
- RTP Bridge

Physical characteristics

- 3 gigabit network ports (100/1000 Mbps)
- Dimensions: 430 (width) x 185 (depth) x 44mm (height)
- Full Range 110-240 VAC internal power source

Warranties and Certifications

- Factory warranty: 1 year
- ISO 9001:2008-certified company

Additional product pictures

Rear view

Application Model