

μSBC Connect and 4 gigabit Ethernet

FEATURES

- 4 Gigabit Ethernet network ports
- 2 GSM LTE (4G) inputs
- Survival – SAS*
- Conectivity
- Security
- Provisioning

* *Optional feature - optional items are available at an additional cost.*



APPLICATIONS

- VoIP telephony carriers
- Corporate enviroments

Overview

Developed for companies that work with SIP connection and VoIP telephony carriers, the μSBC Connect ensures secure connection between local network and VoIP through LTE (4G) technology. It provides security of SIP network through data encryption, protecting communication sessions from third party interception. Security features such as encryption and topology hiding are available on all calls simultaneously

LTE Network

The μSBC Connect has connection to LTE (4G) technology, so it can be deployed without the need for a wired connection. When configured, all connecting network traffic will be done through its LTE network, making it a great solution for scenarios where wired connection is unstable or non-existent.

Routing and customer loyalty plan

Obtain enhanced control over your telephony costs by configuring routing rules according to phone number prefixes and/or carrier loyalty attributes. You can also sort routes by priority, as well as modify the caller and called numbers when necessary.

With these features it is possible to have a wide variety of combinations, catering to multiple needs besides savings.

Table of simultaneous calls

The μSBC Connect allows you to have up to 28 simultaneous SIP-to-SIP calls with all SBC functions enabled. The table below shows the number of channels available for use depending on the codec to be used on calls:

Maximum number of simultaneous μSBC Connectcalls		
With G.711 ↔ G.711 codec	With G.729 ↔ G.711 codec	With G.729 ↔ G.729 codec
28	19	14

* The use of the G.729 codec reduces the number of possible simultaneous calls. Refer to your product manual or contact our business consultants for more information

Route failover

The μSBC Connect offers route failover to avoid downtime in call processing in case of a VoIP server failure. The failover function is implemented by using routes along with VoIP server monitoring through the Keep Alive feature. When the Keep Alive function is active, the μSBC Connect sends OPTIONS messages to the VoIP server in order to monitor its status. When this server does not respond to the OPTIONS command, the μSBC Connect then ignores the route through which this server is being used and searches for another compatible route.

Survival – SAS

The survival capability (Stand-Alone Survivability, SAS) ensures the continuity of telephone communications in case the IP PBX system becomes unavailable. When the μSBC Connect has SAS license applied, it assumes the basic functions of the IP PBX system: making and receiving external calls, making calls to extensions, and transferring calls. This way, you don't have to wait for the IP PBX to be available again to restore your telephone communications.

Technical specifications

Operation Interfaces

- Interface for configuration via web
- Module for diagnostics via web
- User interface access control

Supported CODECs

- G.711 A-law and μ-law, native to the system, for all interfaces
- G.729

System Status

- System status via web

Call Routing

- Configuration of alternative routes (automatic overflow and fallback)
- Route fidelization (ability to change the destination number)
- LCR (Least cost routing)
- Routing based on the source number, destination number, time of day, and priority
- Route profile

Survival - SAS

- Forwarding of incoming and outgoing calls

- Status of trunks and channels via web
- SNMP support

QoS

- DiffServ - RFC 4594
- VLAN Tagging

Call Register

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

Security

- Register authorization
- Fraud Prevention: call blocking by destination and source
- DoS/DDoS protection
- Topology hiding
- SIP TLS
- SRTP (SDES & DTLS)
- ACL (whitelist and blacklist)
- Malformed packet protection
- Rogue RTP protection
- HTTPS protocol
- Password-protected access to the web interface

SIP header manipulation

- Handling of destination number (to) and source number (from)
- X-headers addition

Interworking

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

- Transfer with and without consultation
- Automatic proxy fallback

Modem

- Modem 4G/LTE CAT 4 support (150 MB download and 50 MB upload) with redundancy through 3G and 2G networks

NAT Traversal

- It can be used to interconnect different networks
- External IP configuration
- STUN

OAMPT

- Provisioning (settings export and import)
- Zero-touch provisioning
- Configuration, monitoring, management, and diagnostics via Web
- CLI tool
- Generation of signaling and system logs
- Generation of CDR with configurable format
- SNMP monitoring
- TR-069 support

Warranties and Certifications

- Factory warranty: 3 years
- ISO 9001 certified

Características Físicas

- Input: 110–240 V AC – 50/60 Hz
- Maximum power consumption: 150 W
- 4x gigabit network ports (10/100/1000 Mbps)
- 2 GSM LTE (4G) inputs
- Dimensions: 17" x 1.7" x 7.3"
- Approximate weight (without packaging): 6.8 lb

Product Images



Front View

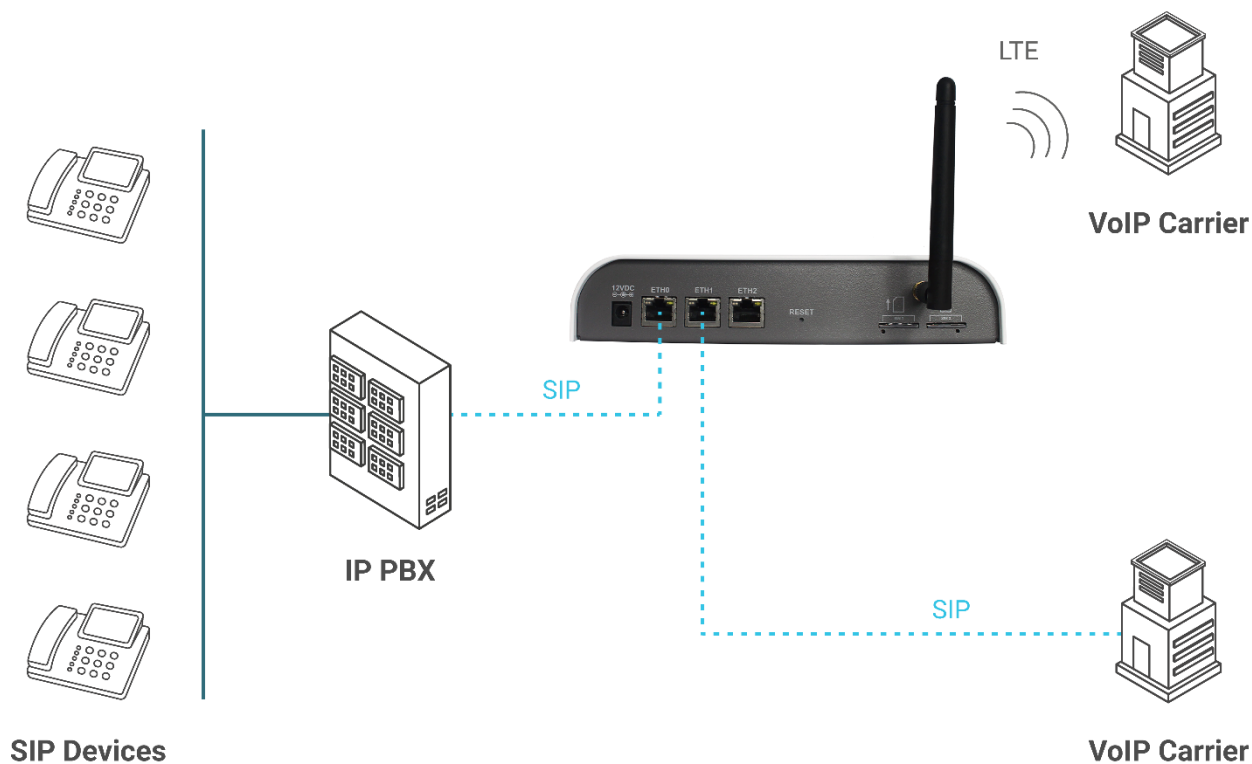


Rear View

Application Models

1 - Connection of IP PBX system with VoIP telephony carriers

In this scenario, the μ SBC Connect Connect, connects server local IP PBX with 2 telephony VoIP carriers, with all security resources..



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