

SESSION BORDER CONTROLLER (SBC)

The VoIP network demarcation point for enterprises

The Agile SBC connects any IP PBX to any Internet-based, next-generation network. With integrated Enterprise SBC functions for any signaling adaptations, the Agile SBC is an ideal demarcation point for the interface between enterprise premises and wide area networks. Two Ethernet interfaces allow a physical independent connection to LAN and WAN. The TDM option supports two E1/T1 interfaces allowing connections to traditional TDM equipment. For high availability, the LTE/UMTS option provides IP access via mobile networks as a backup if WAN service is disabled.



The Basics

- **Security:** Topology Hiding, Security Offloading, Media Pinholing, Black/White-List
- **Interoperability:** Protocol Translation, Header Manipulation, Number Manipulation
- **Media:** Transcoding, Transrating, Anchoring

Scalability and Operational Ease

- Full interoperability adjustments between network and customer equipment with protocol translation, header manipulation and translation, number manipulation and translation.
- Media interworking with integrated codec resources for normalization and bandwidth management with 60 transcoding sessions, normalization of codecs, Fax: T.38<-> VBD/Clear Channel, bandwidth reduction avoiding bandwidth bottleneck.
- Maintain separate networks between network and customer premises with physical separation of networks, topology hiding, integrated firewall for IP and SIP, encryption signaling and voice with SRTP/TLS.
- Multiple integrated features allow easy management and provide additional security functions with least cost and QoS routing, automatic failover routing, support of multiple SIP routes/trunks. Emergency failover with optional LTE/UMTS for IP access to mobile networks.

With support for protocols SIP and MGCP, a highly precise 5ppm clock and various codecs for voice (G.711, G.722, G.726, G.729) and fax (T.38, Clear Channel, DTMF) the Agile SBC deliver full ISDN quality. With the integrated header and routing manipulation capabilities a smooth migration

for all enterprise equipment and network requirements is guaranteed. Low power consumption less than 3 Watts, passive cooling, and small form-factor.

FLEXIBILITY TODAY AND TOMORROW

Up-to-date design and architecture providing services and features today and tomorrow. With remote management for provisioning and troubleshooting, Call detail records (CDRs), Call recording and RADIUS. Plus options for TDM connection or LTE backup, the Agile SBC delivers seamless service.

VoIPXess SBC

Product Specification Data Sheet

1U Rack Mountable Platform



AGILE ROUTING

Calls via TDM network or mobile communications backup in case of IP network failure ensure availability of services. The integrated SIP server of the Agile SBC provides local SIP terminal devices with telephony functions if a cloud PBX becomes temporarily unavailable. The integrated IP & SIP firewall of Agile SBC protects the VoIP network. Fraud attacks are detected and automatically blocked.

Processor

- Quad-core 1.5 GHz
- 2 Gbyte RAM
- 8 Gbyte FlashRAM

Ethernet

- 10/100/1000 Mbit/s
- Physical independent ports
- VLAN

VoIP

- SIP/MGCP
- G.711, G.722, G.726, G.729
- Fax: T.38, Clear Channel, DTMF

Call Routing

- Multiple SIP registrars
- Multilevel alternative routing
- Qos monitoring & routing

Call Manipulation

- Header & number manipulation
- Codec translation & transrating
- Overlap/en-block conversion

Security

- IP address & port blocking
- Black/White list
- Topology hiding
- Self learning VoIP firewall
- Toll fraud prevention

Advanced

- Integrated SIP registrar & location server
- Full IP routing & firewall capabilities
- NAT traversal
- Remote provisioning
- TDM & LTE/UMTS backup
- Low power consumption

Variants

- voipXess SBC 100: cc 100; codecs 20
- voipXess SBC 200: cc 200; codecs 50
- voipXess SBC 500: cc 500; codecs 90

Options

- voIPXess PRI option: 2 x E1/T1 for TE/NT, highly precise 5ppm clock

- voIPXess LTE option: 2 x LTE/UMTS, up to 150 Mbit/s bandwidth

Interfaces

- Ethernet: WAN: 10/100/1000 Base-T RJ-45
- Ethernet: LAN: 10/100/1000 Base-T RJ-45
- USB 2.0
- Power: 100-240 VAC, 15W, low power consumptions (<10W)

Physical Parameters

- Size (WxHxD): 442x43x260mm
- Weight: 2.0kg
- Material: Aluminium
- Mounting: 19" 1U rack

Environmental Conditions:

- +5°C to +40°C
- Humidity: 5% to 80% (non-condensing)

Certifications

- EMC, Safety, CE

MORE BANDWIDTH LESS EXPENSE!

WE ARE AGILE

We engineer the hardware. We design the software. We build the solution. With committed support

AGILE

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