

eSBC Small Business Line VoIP gateway

Small Business Line

Fixed interfaces, one job, entry-level price — for sites whose wiring is not going to change again.



- Seven fixed configurations covering BRI, PRI, analogue and the common BRI plus FXS mix, plus the eSBCSB as a pure SBC
- Up to 128 transparent and up to 8 transcoded SIP-to-SIP sessions; calls between PSTN and SIP need no licence
- Same beroNet OS and the same web interface as the modular line
- Registers with beroCloud for remote configuration, monitoring and firmware updates
- Fanless 3D-printed PETG housing, no moving parts

Models

MODEL	PSTN INTERFACES	PSTN CHANNELS	SESSIONS INCLUDED	MAX. TRANSPARENT	MAX. TRANSCODED
SBCSB2S0	2 × BRI	4	2	128	8
SBCSB4S0	4 × BRI	8	2	128	8
SBCSB2HY	2 × BRI + 2 × FXS	6	2	128	8
SBCSB1PRI	1 × PRI T1/E1	30	2	128	8
SBCSB2PRI	2 × PRI T1/E1	60	2	128	8
SBCSB4XS	4 × FXS	4	2	128	8
SBCSB4X0	4 × FXO	4	2	128	8
eSBCSB	none (pure SBC)	—	4	128	8

Sessions are SIP-to-SIP sessions: included without licence, maximum with session licences.

Technical data

HARDWARE

Housing	Fanless 3D-printed PETG housing, black
Dimensions	168 × 173 × 42 mm (W × D × H)
Weight	approx. 450 g, without power supply
Network	2 × Ethernet 10/100 Mbit/s (LAN, WAN)
Power	12 V DC via external power supply, max. 24 W
Environment	Operating 0 to 35 °C, storage –20 to 50 °C, 10–90 % RH non-condensing
Rear panel	12 V DC jack, LAN, WAN, service connector (hardware factory reset)
Expandability	Fixed configuration, not modular
Mounting	Not 19-inch rack-mountable
Scope of delivery	Device, power supply 12 V (BFPower)

TELEPHONY

ISDN	Q.921/Q.931 (EuroISDN DSS1); DSS1: CLIP/no screening, CLIR, COLP, UUS, MCID, CD, CNIP; Q.SIG: CNIP; TE or NT mode set in software
FXS	CLIP, CNIP, hold, retrieve and transfer, message waiting indication (stutter tone, FSK)
FXO	CLIP, CNIP, flash hook

COMPLIANCE AND WARRANTY

CE	Marks	Warranty
EMC 2014/30/EU, low voltage 2014/35/EU, RoHS, REACH	CE, FCC, ACMA (RCM)	2 years; extendable by 3 years to 5 years in total

Matching accessories

ARTICLE	DESCRIPTION	FOR
BNSBC-SESSION-TP-4...128	Licences for transparent SIP-to-SIP sessions	all models
BNSBC-SESSION-4/-8	Licences for transcoded SIP-to-SIP sessions	all models
BFFXXCableKit	Cable kit RJ45 to RJ11	SBSCB2HY, SBSCB4XS, SBSCB4XO
BF1E1Cross	E1/T1 cross-over cable	SBSCB1PRI, SBSCB2PRI
BFExtendedWarranty_S	Warranty extension by 3 years to 5 years in total	all except SBSCB1PRI, SBSCB2PRI
BFExtendedWarranty_M	Warranty extension by 3 years to 5 years in total	SBSCB1PRI, SBSCB2PRI
beroCloud_Account	beroCloud account	all models
BFPower	Power supply 12 V	all models

Session licences

Calls between the PSTN interfaces (FXS, FXO, BRI, PRI) and SIP need no session licence. Only SIP-to-SIP sessions are licensed; included sessions and maximum per model are listed in the model table.

VOICE

Codecs	G.711; G.729 and G.723.1 for up to 4 calls at a time, without licence
Echo cancellation	G.168/G.165, up to 128 ms
Signal processing	Voice activity detection and comfort noise (VAD/CNG), DTMF detection and generation
Fax	T.38 fax relay

SIP AND SECURITY

SIP	RFC 3261 over UDP, TCP or TLS 1.2 (TLS without additional licence); SRTP media encryption
SBC functions	Topology hiding, SIP DoS detection, access control lists, SIP header manipulation, conversion between TCP and UDP and between RTP and SRTP

MANAGEMENT

Operating system	beronet OS, the same as on the modular line
Configuration	Web interface; provisioning via DHCP option or REST API
beroCloud	Remote configuration, monitoring and firmware updates