

Enterprise Session Border Controller (eSBC)

Enterprise SBC

One platform, two capacity classes, six module types – the interface mix follows the site, not the catalogue.



- Separates the internal SIP network from the provider: topology hiding, SIP DoS detection, access control lists
- Rewrites SIP headers and converts between TCP and UDP, RTP and SRTP, and differing codecs
- Add-on modules for BRI, PRI, FXS and FXO turn the same device into an ISDN or analogue gateway
- Up to 128 transparent SIP-to-SIP sessions and 8 (M) or 16 (L) transcoded; calls between PSTN and SIP need no licence
- Two network ports, remote configuration and firmware updates through beroCloud

Models

MODEL	PSTN INTERFACES	PSTN CHANNELS	SESSIONS INCLUDED	MAX. TRANSPARENT	MAX. TRANSCODED
BNSBC -M	2 module slots	up to 16	2	128	8
BNSBC -L	2 module slots	up to 64	2	128	16

Sessions are SIP-to-SIP sessions: included without licence, maximum with session licences. BNSBC-M and BNSBC-L are supplied without modules; channels are the maximum with modules fitted.

Modules

ARTICLE	INTERFACES	CHANNELS	CONNECTOR
BNM0-4BRI	4 × BRI High precision clock for DECT	8	BNSBCPLUG
BNM0-2HYB	2 × BRI + 2 × FXS	6	BNSBCPLUG
BNM0-4FXS	4 × FXS	4	BNSBCPLUG
BNM0-4FXO	4 × FXO	4	BNSBCPLUG
BNM0-1PRI	1 × PRI T1/E1 High precision clock for DECT	30 (E1)	BNSBCPLUGPRI
BNM0-2PRI	2 × PRI T1/E1 High precision clock for DECT	60 (E1)	BNSBCPLUGPRI

Channels: 2 B channels per BRI port, 30 per E1 port; the device limits the total to 16 (BNSBC-M) or 64 (BNSBC-L). BRI ports: TE or NT mode set in software.

Technical data

HARDWARE

Housing	Fanless aluminium housing, 170 × 170 × 42 mm (W × D × H)
Weight	approx. 800 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 40 °C with the supplied power supply, 0 to 70 °C with a power supply rated for this range; storage -20 to 70 °C; humidity 10-90 % operating, 5-95 % storage, non-condensing
Rear panel	12 V DC jack, LAN, WAN, service connector (hardware factory reset)
Expandability	Two slots for BRI, BRI/FXS, FXS, FXO and PRI T1/E1 modules; supplied without modules
Mounting	19-inch rack mounting with BF19Bracket or BF19BracketDBL
Scope of delivery	Device; power supply 12 V (BFPower); connector board 4 × RJ45 (BNSBCPLUG): 2 × BNSBC-M, 1 × BNSBC-L; PRI connector board (BNSBCPLUGPRI): 1 × BNSBC-L

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

BNSBC-SESSION-TP-4...128	Licences for transparent SIP-to-SIP sessions	BF19Bracket	19-inch mounting bracket for one device
BNSBC-SESSION-4/-8	Licences for transcoded SIP-to-SIP sessions	BF19BracketDBL	19-inch mounting bracket for two devices side by side, 1 U
BNSBC-SESSION-16	Licences for transcoded SIP-to-SIP sessions For: BNSBC-L	BFFXXCableKit	Cable kit RJ45 to RJ11
BNMO-...	Add-on modules: 4 × BRI, 2 × BRI + 2 × FXS, 4 × FXS, 4 × FXO, 1 or 2 × PRI T1/E1	BF1E1Cross	E1/T1 cross-over cable
BNSBCPLUGPRI	Connector board for one PRI module	BFExtendedWarranty_S/_M	Warranty extension by 3 years to 5 years in total
		beroCloud_Account	beroCloud account
		BFPower	Power supply 12 V

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.