

Smart External Access for smooth and secure interoperability!

# UNIVERGE® BX Series



NEC offers a broad range of gateway and SBC solutions for both service provider and enterprise deployments, built around NEC's UNIVERGE BX series that includes session border controllers (SBC) and digital and analog media gateways.

## At a glance

- > Extensive SIP mediation and interoperability
- > Complete perimeter defense for the enterprise
- > High Availability, survivability and resiliency for branch offices
- > Single managed point of demarcation
- > Enhanced Quality of Experience
- > Save on hardware costs & IT maintenance
- > Software licence scalability
- > From highly integrated device up to software only
- > Rapid Deployment using the SBC

## Typical applications

### Connectivity to Service Provider networks

The BX Product range provides businesses with the interoperability, survivability, security and quality assurance required to connect all of NEC's enterprise communication servers with service provider networks.


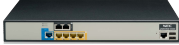


### Connectivity to Service Provider networks

The BX Products range enables mobile users to benefit from UC capabilities, such as audio, video, presence, instant messaging and web conferencing in a secure way and from any location.

These Hybrid products offer investment protection by supporting gradual migration from TDM to IP, and from PSTN to SIP Trunking, supporting SIP and TDM connectivity on the same hardware. SBC functionality can easily be added as a licensed option to the existing gateway.

The BX product series consists of pure Gateway and SBC solutions, as well as a mix of both, the Hybrid products.

## Specifications

SBC Features	BX500	BX800	BX1000	BX9000
				
Max. Signaling/Media sessions	60	250	150	10000*
Max. SRTP-RTP sessions	60	250	150	10000*
Max. Registered users	200	1500	600	75000*
Max. Transcoding sessions	No	57	96	1200*
CRP option	Yes	Yes	Yes	Yes
SBC Redundancy	1+1 Two box	1+1 Two box	No	1+1

### Common SBC Features

Security	Interoperability	Quality Of Experience
Access control: Dos/DDoS line rate protection/bandwidth throttling/dynamic blacklisting	Signal conversion: DTMF/RFC 2833/SIP, T.38 FAX, Packet time conversion	Voice enhancement: transrating, RTCP-XR, Acoustic echo cancellation.
VOIP Firewall and deep packet inspection	Wide ITSP and PBX interoperability	Packet marking: 802.1p/Q VLAN tagging, Diff Serv, TOS
Encryption and authentication	Header / URI / Number manipulation	Impairment Mitigation
Topology hiding, user privacy	Extensive Transcoding and Vocoders	Signaling and Media failover
Traffic separation	Transport mediation	Fixed and dynamic gain control
Intrusion Detection System	NAT traversal	Call admission control

Gateway Features	BX500	BX800	BX1000
Supported models	<ul style="list-style-type: none"> <li>• BX500 with 2 BRI</li> <li>• BX500 with 4 BRI</li> <li>• BX500 4 FXS</li> <li>• BX500 4 FXS + 4 FXO</li> </ul>	<ul style="list-style-type: none"> <li>• BX800 with 1 PRI</li> <li>• BX800 with 2 PRI</li> <li>• BX800 with 4 BRI + 4 FXS + 4 FXO</li> </ul>	<ul style="list-style-type: none"> <li>• Modular</li> </ul>
MAX TDM Channels	8	60	192
MAX PRI (E1/T1)	-	2/2	6/8
MAX BRI Analog	4	4	20
MAX FXS/FXO	4/4	4/4	24/24

Physical	BX500	BX800	BX1000
Dimensions (HxWxD)	51 x 296 x 160 (mm)	1U x 320 x 345 (mm)	1Ux444x355 (mm)
Power	Single 100-240 AC, 50-60 Hz,12V/3A	Single 100-240V AC, 50-60 Hz, 4A	Single 100-240V AC, 50-60 Hz, 1,5A optional redundant
Mounting	Desktop or 19" Rack mount	Desktop or 19" Rack mount	Desktop or 19" Rack mount
Network interfaces	4GE	4GE + 8FE (SBC only)	6GE

\* Boundaries depend on type of hypervisor

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