\Orchestrating a brighter world

NEC

UNIVERGE®
BX Series

Smart External Access for smooth and secure interoperability!

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

Typical applications are:

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.

Remote and Mobile workers
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.

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

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
> Software license scalability
> From highly integrated device up to software only
> Rapid Deployment using the SBC

Smart External Access

Specifications

SBC Features	BX800	BX1000	BX9000
Hybride/SBC	Hybrid/fixed	Hybrid/modular	SBC
MAX signaling sessions	250	150	6.000
Max Media sessions	250	150	6.000
Max SRTP-RTP sessions	180	120	4.000
Max Registered users	800	600	30.000
Max transcoding sessions	57	96	300
SBC Redundancy	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, DiffServ, 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	• BX500 with 1 BRI • BX500 with 2 BRI • BX500 with 3 BRI • BX500 with 4 BRI	• BX800 with 8 BRI • BX800 with 1 PRI • BX800 with 2 PRI • BX800 with • 4 BRI + 4FXO+4XFS	• Modular
SAS option	Yes	Yes	Yes
MAX TDM Channels	8	60	192
MAX PRI (E1/T1)	0	2/2	6/8
MAX BRI	4	8	20
Analogue FXS/FXO	-	4/4	24/24

Physical	BX500	BX800	BX1000
Dimensions (HxWxD)	51x296x160 (mm)	1Ux320x345 (mm)	1Ux320x345 (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 PS
Mounting	Desktop	Desktop or 1a" Rack mounted 4-	Desktop or 1a" Rack mounted
Network interfaces	4-GE	GE + 8FE (SBC only)	6-GE

About NEC Corporation - NEC Corporation is a leader in the integration of IT and network technologies that benefit businesses and people around the world. By providing a combination of products and solutions that cross utilize the company's experience and global resources, NEC's advanced technologies meet the complex and ever-changing needs of its customers. NEC brings more than 100 years of expertise in technological innovation to empower people, businesses and society. For more information, visit NEC at http://www.nec.com

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