

# NXG SERIES

Next Generation IP-PBX



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# Transforming Communication Empowering Productivity

## Telephony Solution for Modern Workspace



### NXG SERIES IP-PBX

Neron NXG Series IP-PBX, next generation telephony solution designed to deliver advanced telephony capabilities for modern workspace and enable seamless integration with various communication endpoints, including SIP phones, WebRTC Client, Video Phone, softphones and mobile devices. With its user-friendly interface and intuitive management tools, NXG simplifies administration and configuration tasks to save time and effort. It also offers advanced security features, such as encryption and firewall protection, to ensure the confidentiality and integrity of your communications.

#### GIGA ETHERNET



Unleash the Power of Lightning-Fast Voice and Video Data Transfers with 4x GiGA Ethernet: 1x WAN, 2x LAN, and 1x IMS Port



#### ROUTER INBUILT

Seamless Connectivity and advanced routing capabilities with Inbuilt router features such as NAT, DNS, DHCP Client & Server, VLAN ..etc

#### HA - HIGH AVAILABILITY



To ensure uninterrupted service and increased reliability, all the models in NXG series support High Availability (HA).



#### WEBRTC

WebRTC supported extension and API for browser-based audio-video communication or seamless integration with any CRM application

#### FIREWALL



Connect OpenVPN-based SIP trunks offered by telco service providers or use it for secure branch office telephony network connectivity.



#### SIP DEFENCE

Seamless Connectivity and advanced routing capabilities with Inbuilt router features such as NAT, DNS, DHCP Client & Server, VLAN ..etc

#### OPEN VPN CLIENT



Connect OpenVPN-based SIP trunks offered by telco service providers or use it for secure branch office telephony network connectivity.



#### MQTT API

Unlock the potential with MQTT event API for IVR Broadcast, helpdesk solutions, Telephony Automation or 3rd party CTI integration.

## PAGING & ANNOUNCEMENT



SIP-based paging & announcement system inbuilt which support one-way, two-way, and scheduled voice announcements .

## CALL RECORDING



Call recording options to record all calls with flexibility in storage options USB, Share drive and inbuilt SD card .

## BOSS-SECRETARY



Boss-Secretary call handling facilitates efficient communication and call management between a boss and their secretary or assistant.

## EXTENSION GROUP



Manage user extension groups with incoming, outgoing restriction or communication between different groups in PBX system.

## IVR - AUTO ATTANDENT



Welcome callers with Pre-recorded voice message and key press option using multi-layer multiple channel IVR feature .

## PHONE BOOK



Manage intercom user or customer contact numbers and ensure their name and number display on incoming calls.

## CALL QUEUE



ACD Call Queue feature for efficient call distribution, queue position announcement and custom MOH to enhance the caller experience

## DISA



Allows authorised external callers/WFH user to access trunk or extension of the pbx without internet connectivity.

## CONFERENCE BRIDGE



Welcome callers with Pre-recorded voice message and key press option using multi-layer multiple channel IVR feature .

## TIME PROFILE



Manage intercom user or customer contact numbers and ensure their name and number display on incoming calls.

## CALL BARGE-IN



ACD Call Queue feature for efficient call distribution, queue position announcement and custom MOH to enhance the caller experience

## CDR



Allows authorised external callers/WFH user to access trunk or extension of the pbx without internet connectivity.

## Part Code

## NXG Series SIP PBX

Model No.	SIP Users	Live Call	FXS	FXO
NXG 8000	5000	350	---	---
NXG 8412	5000	350	12	4
NXG 8428	5000	350	28	4
NXG 8032	5000	350	32	--

Maximum user count and live call capacities can reach 20000 users and 500 concurrent calls.

# Technical Specification

## NXG Series SIP PBX



<b>Physical Interface</b>	1x WAN 10/100/1000 2x LAN 10/100/1000 1x SFP Port	1x IMS 1x USB
<b>Network Protocol</b>	LAN, WAN, IPv4, IPv6, Static IP, DHCP (server & Client ) N2N VPN, Open VPN ICMP , NAT, DNS, PPPoE, SMTP, ARP, VLAN, NTP, TFTP, SSH, HTTPS	
<b>Audio Video Codecs</b>	PCMA, PCMU, G.729, GSM, G.726, G.722, H.264, MPEG4, VP8	
<b>LCD Display</b>	Size : Width 28mm , Height 35mm Status : Date & Time, Live call graph , FXO-FXS Channel status	
<b>Protocol</b>	<b>SIP</b> - RFC 3261 <b>DTMF</b> - RFC 2833, SIP INFO, Inband <b>Transport</b> - UDP, TCP, TLS, SRTP <b>API</b> - MQTT <b>Network</b> - LAN, WAN, IPv4, IPv6, DHCP (Server & Client), ICMP, DNS PPPoE, SMTP, ARP, VLAN, NTP, TFTP, SSH, NAT HTTPS <b>VPN</b> - Open VPN , N2N VPN	
<b>Voice Processing</b>	SIP V2.0, RFC3261, SDP RFC2327 RTP/ RTCP RFC3551, CNG ,VAD, AGC, CPT, DTMF Signal RFC2833, SIP INFO , Inband, RFC4733, RBT 128ms Echo Cancellation, Dynamic Jitter Buffer, Silence Suppression, STUN,	
<b>Management</b>	HTTPS Web GUI, Backup-Restore, Firmware upload Factory Reset, Ping, PCAP , Command Control Application - Centerlised Management, DialX-Monitoring and Telephony automation	
<b>Encryption &amp; Security</b>	SRTP, TLS, HTTPS, SSH, NAT, Firewall ACL, White/Block List , Session Timer, ACL, VPN, SIP Defence	
<b>Compliance</b>	CE - 2014/35/EU Low Voltage Directive FCC- FCC PART 15, Subpart B: 2013 Class A, EN 55022 Class ROHS- RoHS Directive (2011/65/EU)	
<b>Operating Temperature</b>	Operating: 32 ~ 104°F / 0 ~ 40 °C , 10 ~ 90% (non-condensing) Storage: 14 ~ 140°F / -10 ~ 60 °C	
<b>Telephony Features</b>	SIP Intercom, IVR, Voice Mail, VoiceMail to Email, Caller ID, DISA, ACD, Paging & Announcement, Ring Group, Call Conference , Video call, FollowMe , FindMe, Call Recording, Call Hold, Transfer, Call Park, CDR, Call Routing,, MOH , Three-way Calling, Call Queue, Call Barge,, Boss -Secretary, BLF Call Monitor, Call Waiting, Call Forward, VideoCall, Call Pickup, WebRTC Presence , DID, DOD, Time Profile, SpeedDial, AlarmClock, PhoneBook .....etc	
<b>Weight &amp; Dimension</b>	Weight - 3.7 Kg ( Without Box )   6 Kg ( With Box and Accessories ) Dimension - 440x239x44mm (W/D/H)	

# Explore Add-on Features

Monitoring | Automation | Integration

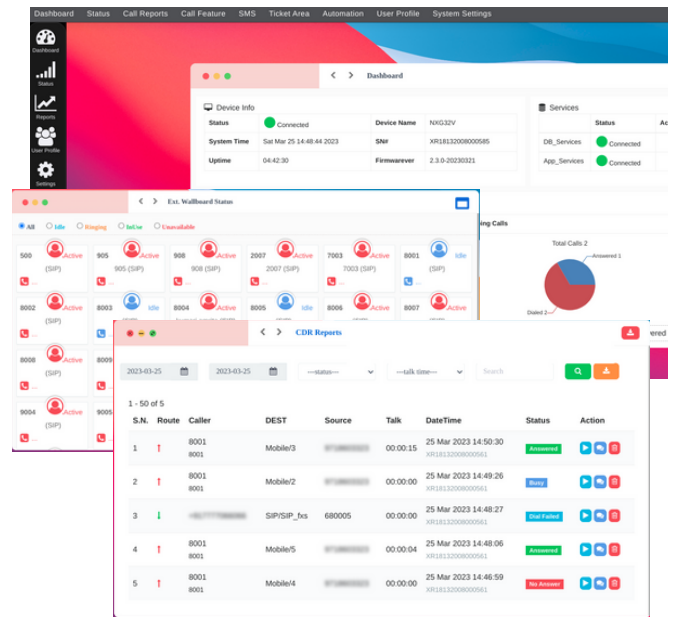


## DEVELOP YOUR OWN APPLICATION

Neron NXG Series IP PBX is equipped with an MQTT API, providing event-based communication capabilities. MQTT API allows for seamless integration with third-party applications, enabling the exchange of real-time event data. This feature enhances automation, enables custom telephony application development such as voice broadcast, auto dialing, call popup, Telephony CRM, and facilitates advanced communication scenarios for telephony system.

## DIALX

Dialx, a feature-rich on-premise application software offered by Neron, provides role permission-based telephony automation for NXG Series devices. With Dialx, users can configure automated telephony event alerts and workflows based on their roles and permissions within the organization. Additionally, Dialx offers centralized Call Detail Record (CDR) and call recording management, allowing for easy monitoring and management of call recordings across multiple NXG Series devices.



## COMMAND CONTROL CENTER

Command Control Center offers a centralized interface to manage large deployment of NXG Series IP-PBX and VoIP Gateways. Conveniently monitor connectivity status of the devices from a single dashboard and log in to the device console or GUI interface. This streamlined hardware management, enhances operational efficiency and simplifies the administration of the telephony infrastructure.



Neron Informatics is a research and development focused organization specializing in the manufacturing of telecom hardware and software products. Primary objective is to enhance communication infrastructure and improve productivity across various industries, Neron offers a wide range of telephony solutions tailored to meet the diverse needs of businesses, including SIP PBX systems, gateways, and headsets.

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# Contact us for further inquiries

