

# N-Series Smart PBX

ELEVATING COMMUNICATION EXPERIENCE



**N-Series IP PBX** is meticulously designed to meet the communication needs of SOHO, SMEs and startup organizations, providing a cost-effective telephony solution. Empowering office communication need with advanced UC features such as audio-video calls, IVR, MQTT API Events, call recording, voicemail, CDR, Custom MOH, conference bridge, paging & announcements. In acknowledgment of the demands of the modern workspace, N-Series PBX systems deliver essential features such as OpenVPN, ACL firewall protection, router capabilities and a SIP defense mechanism tailored for secure branch office communication.

### MQTT API Events

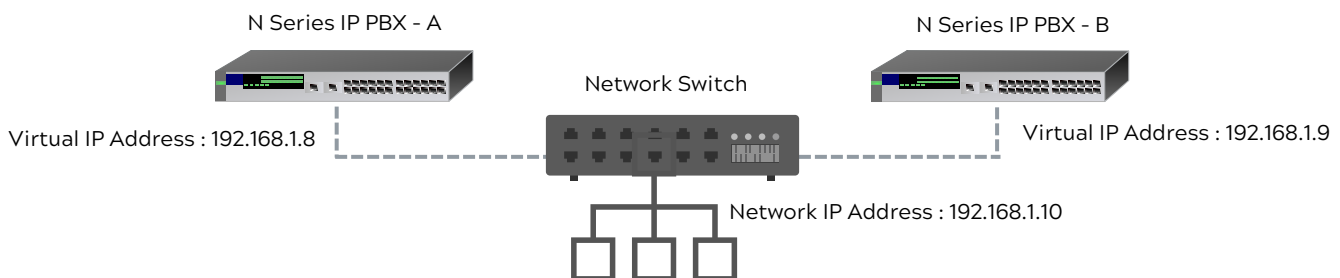
API events powered by MQTT, enable the exploration of telephony events, 3rd party integration, custom application development, and telephony automation. Empower your CRM application or website with features like click-to-call, scheduled call back, voice broadcast, or WebRTC calls to experience next-generation UC capabilities.

### Security

Ensuring secure communication and guarding against unauthorized network access, N-Series PBX system incorporates built-in ACL, firewall, HTTPS, SRTP, and SIP defense. Furthermore, it offers additional security layers for branch office communication through OpenVPN and N2N VPN options.

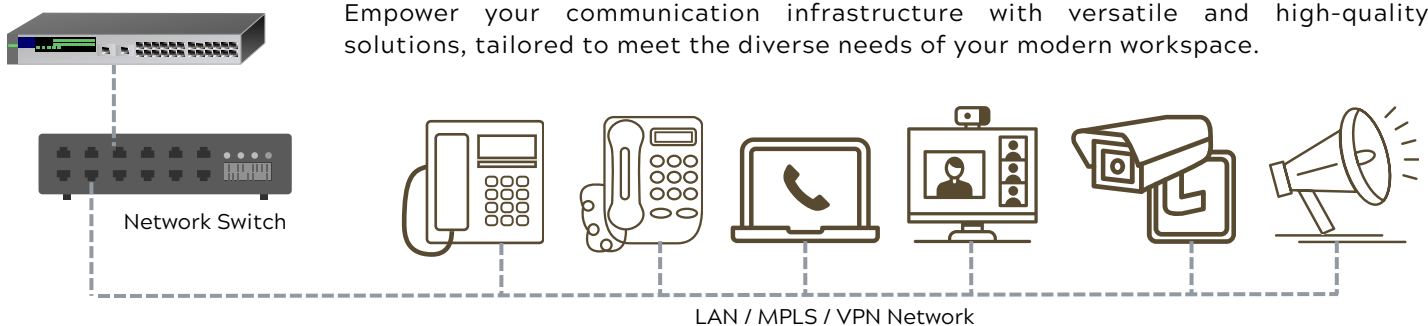
### Redundancy

Experience uninterrupted communication with our high availability feature, designed for redundancy, ensuring zero downtime at no extra cost. Simply connect any two N-Series or NXG Series devices to configure either an Active-Active, Active-Backup, or High Availability (HA) mode. With this robust setup, your communication network remains resilient, providing reliability and continuity for your critical operations.



### Connectivity

Unlock seamless connectivity in your modern workspace telephony with GSM-VoLTE, PSTN, or a managed SIP Trunk. Experience crystal-clear HD voice quality and the flexibility to connect a variety of SIP devices as endpoints. Enhance your communication setup with SIP audio-video phones, SIP speakers, PA Adaptors, FXS gateways, SIP cameras, video door phones, softphones, WebRTC clients, and more. Empower your communication infrastructure with versatile and high-quality solutions, tailored to meet the diverse needs of your modern workspace.

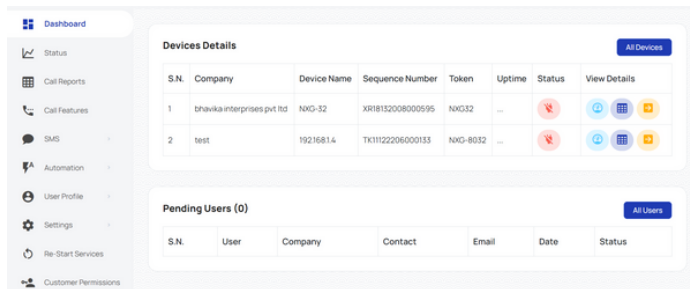


### WebRTC

N-Series extends its support to WebRTC trunks and extensions, catering to both audio and video calls. Additionally, it offers API support for seamless custom webphone integration into third-party applications. Elevate your communication experience with N-Series, combining cutting-edge WebRTC capabilities with the flexibility to integrate seamlessly into your preferred applications.

## Paging & Announcement

Experience the power of SIP-based Paging & Announcement, an integral feature designed to fulfill diverse communication needs. Whether it's for emergency broadcasts, scheduled announcements, one-way Paging, or the versatility of two-way Paging with intercom and video intercom functionalities, our solution is tailored to meet your requirements seamlessly. Elevate your communication strategy with the flexibility and efficiency.



DIALX, a native MQTT-based application designed for seamless integration with Neron NXG Series and N-Series IP PBX systems. This application offers telephony automation to the next level, offering comprehensive monitoring of call detail records (CDR), call recording, and device status monitoring. Whether on the cloud or on-premises, DIALX ensures real-time alerts and monitoring capabilities, providing a robust solution for your telephony infrastructure.

## Technical Specification

<b>Network Protocol</b>	LAN, WAN, IPv4, IPv6, Static IP, DHCP (server & Client), 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>Protocol</b>	<p><b>SIP</b> - RFC 3261</p> <p><b>DTMF</b> - RFC 2833, SIP INFO, Inband</p> <p><b>Transport</b> - UDP, TCP, TLS, SRTP</p> <p><b>API</b> - MQTT</p> <p><b>Network</b> - LAN, WAN, IPv4, IPv6, DHCP (Server &amp; Client), ICMP, DNS, PPPoE, SMTP, ARP, VLAN, NTP, TFTP, SSH, NAT, HTTPS</p> <p><b>VPN</b> - Open VPN, N2N VPN</p>
<b>Voice Processing</b>	SIP V2.0, RFC3261, SDP RFC2327 RTP/ RTCP RFC3551, CNV, 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, DialX-Monitoring and Telephony automation
<b>Encryption &amp; Security</b>	SRTP, TLS, HTTPS, SSH, NAT, Firewall, ACL, White/Block List, Session Timer, VPN, SIPDefence

Part code	Neron N-20	Neron N-30	Neron N-50
<b>SIP Extension</b>	250	500	100
<b>Simultaneous Call</b>	30	30	30
<b>Ethernet - LAN</b>	1x 10/100	1x 10/100	1x 10/100
<b>Ethernet - WAN</b>	1x 10/100	1x 10/100	1x 10/100
<b>USB</b>	1x ** (V2.0)	1x	1x ** (V2.0)
<b>SD Card</b>	1x	1x	NA
<b>FXS-FXO</b>	2 FXO or 1FXS-1FXO	4FXS-4FXO or 2FXO-6FXS	NA
<b>GSM-VoLTE</b>	1x GSM+VoLTE	NA	8x GSM
<b>Weight (KG)</b>			
Hardware Unit	0.37 Kg	0.52 Kg	1.23 Kg
Corrugated Box	0.50 Kg	0.75 Kg	2.10 Kg
Gift Pack Box	1.05 Kg	1.20 Kg	2.55 Kg
<b>Dimension (MM)</b>			
Hardware Unit	157x102x24	185x125x25	295x150x39
Corrugated Box	270x152x14	280x160x50	410x310x66
Gift Pack Box	230x155x70	230x155x70	335x225x85
<b>Power Supply</b>	12V 2A	12V 2A	12V 3A

## Technical Specification

<b>Telephony Features</b>	SIP Intercom, IVR, Voice Mail, VoiceMail to Email, Caller ID, DISA, ACD, Ring Group, Video call, Paging & Announcement, Call Conference, FollowMe, FindMe, Call Recording, Call Hold, MOH Transfer, Call Park, CDR, Call Routing, 3-way Calling, Call Queue, Call Barge, BLF, WebRTC, Boss-Secretary, Call Monitor, Call Waiting, Call Forward, VideoCall, Call Pickup, Presence, DID, DOD, Time Profile, SpeedDial, AlarmClock, PhoneBook .....etc
<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 ~ 140oF / -10 ~ 60 °C



"Neron Informatics stands at the forefront as a leading manufacturer and unified communication solution provider dedicated to the digital workplace. Established in 2017, Neron Informatics is a proud DIPP Certified organisation under the 'Make in India' initiative by the Government of India. Headquartered in Ghaziabad (UP) with branch locations in major cities across India, Neron Informatics is committed to delivering end-to-end telecom infrastructure and telephony automation solutions. We leverage a wide range of UC hardware and software, ensuring our clients receive top-notch products designed to global standards. Our offerings cater to SOHO, enterprise, ISP, and government customers, promising the highest levels of productivity and reliability. At Neron Informatics, we take pride in shaping the future of unified communication for a connected and efficient world."

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