# Configuration Guide

## NERON NXP 5xx SIP PHONE



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### Overview



NXP 502

- 128 x 64px backlit LCD display
- 2 SIP accounts
- 2 DSS/BLF keys
- HD Voice
- Opus Codec
- 2 x 10/100 Mbps Ethernet port
- PoE
- Stand with 3 adjustable angles
- 2.4GHz Wi-Fi
- Phone book (2000 records)
- BLF & Message waiting indicator (MWI)
- Voice mail, call park, call pickup
- 2 Line keys & 4 Soft Keys
- 7 feature keys: message, headsets, hold, mute, transfer,
- redial, hands-free speakerphone
- 5 Navigate Keys
- Volume +/-
- 1 x RJ9 Handset port
- 1 x RJ9 Headset port



- 3.5" 480x320 Pixel Color Display
- 8 SIP accounts
- 21 DSS/BLF keys
- HD Voice
- Opus Codec
- 2 x Gigabit Ethernet port
- 1x USB port
- PoE
- Stand with 3 adjustable angles
- 2.4GHz Wi-Fi
- Phone book (2000 records)
- BLF & Message waiting indicator (MWI)
- Voice mail, call park, call pickup
- 8 Line keys & 4 Soft Keys
- 7 feature keys: message, headsets, hold, mute, transfer, redial,
- hands-free speakerphone
- 5 Navigate Keys
- Volume +/-
- 1 x RJ9 Handset port
- 1 x RJ9 Headset port



- 2.8" 320x240-Pixel Color Display
- 4 SIP accounts
- 9 DSS/BLF keys
- HD Voice
- Opus Codec
- 2 x Gigabit Ethernet port
- 1x USB port
- PoE
- Stand with 3 adjustable angles
- 2.4GHz Wi-Fi
- Phone book (2000 records)
- BLF & Message waiting indicator (MWI)
- Voice mail, call park, call pickup
- 4 Line keys & 4 Soft Keys
- 7 feature keys: message, headsets, hold, mute, transfer,
- redial, hands-free speakerphone
- 5 Navigate Keys
- Volume +/-
- 1 x RJ9 Handset port
- 1 x RJ9 Headset port



- 4.3" 480x272 Pixel Color IPS screen
- 10 SIP accounts
- Up to 64 DSS/BLF keys
- HD Voice
- Opus Codec
- 2 x 10/100 Mbps Ethernet port
- 1x USB 2.0 port
- PoE
- Stand with 3 adjustable angles
- 2.4GHz Wi-Fi inbuilt
- 5GHz Wi-Fi using Wi-Fi dongle
- Phone book (2000 records)
- BLF & Message waiting indicator (MWI)
- Voice mail, call park, call pickup
- 10 Line keys (touchable) & 4 soft keys (touchable)
- 3 feature keys: headset, mute, hands-free speakerphone
- Volume +/-

- 1 x RJ9 Handset port
- 1 x RJ9 Headset port

## **TECON** SIP Phone Hardware Interface





NO.	Name	Description
1	Power Socket	For external Power Supply Adaptor 5V-1A
2	LCD Display	To Check Status and manual settings
3	PC Port	RJ45- Use to Connect direct with PC
4	PoE Port	RJ45- Use to turn on the device using PoE switch or to connect with network through LAN cable
5	Headset Port	RJ11- To use external Headsets
6	Handset Port	RJ11- To connect Handset
7	Wi-Fi	Use to connect WiFi network
8	Manual RESET	To reset device on factory default
9	GUI RESET	To reset device on factory default





## **Device installation**



- Connect Power adaptor with Power socket.
- Connect Cat5/Cat6 LAN Cable with WAN port with your network or Turn on WiFi and set the network mode (IPv4 WAN Port) on DHCP.

## **Manual Network Setting**





### 2. Wi-Fi:

Menu >> Basic Settings >> Wi-Fi (On) >> Available Network



**TEPOF** INFORMATICS

[ Note: To select Up-Down or On/Off use navigation key ]

### Login with GUI

### 1. IP address:

To Login GUI first find the IP address of the device. Path:



- Now go to browser and browse device IP address and the Login page will be open.
- Enter the username "admin" and password "admin".

neron					
	Username		כ		
	Password		Login		
	Copyright	t © 2022-2033 Nero	n Informatics Pv	t Ltd. All rights reserved	4.

#### Status

пегоп		Firmware Version V0.7.94.130 Current Time 2023-08-11 11:06:12 Admin Mode [Logout] [Reboot]
Status     Network     Wireless       Basic     Syslog     Exception Syslog	SIP Account Phone Administration	
Product Information		Help
Product Information Product Name Internet (WAN) MAC Address Hardware Version Loader Version Firmware Version Serial Number Rescue Version	NXP 502HD 00:21:F2:2C:0A:81 V1.2.0.1.3.1.0 V0.0.13(Dec 10 2020 19:32:13) V0.7.94.130 (202306161609) FLY10621500625	Product Information: It shows the basic information of the product. Line Status: Displays current line registration status, as well as primary and back-up SIP server IP address information. Network Status: Displays the network status and detailed information about WAN, LAN, we re a winking
Line Status Line Status Line 1 Status Primary Server Backup Server Backup Server Backup Server	Registered 703 192.168.1.164 0.0.0.0 Registration Failed 502 192.168.1.25 192.168.1.25	System Status: It shows current time and running time of the product. HelpDesk: +91.8587.000.818 +91.7777.022.022 www.nerontech.com





### 1. Network mode DHCP/Static:

### DHCP:

DHCP- IP Address, Subnet mask and Default Gateway will be issued by the local DHCP Server.

Path:

Network >> WAN >> WAN IP Mode >> Select DHCP >> Save

neron	
Status Network Wireless SI	P Account Phone Administration
WAN IPv6 Advanced IPv6 WAN	VPN
*	
INTERNET	
WAN	
WAN IP Mode	DHCP V
DHCP Server	Static
Request broadcast replies	Disable V
MAC Address Clone	Disable 🗸
DNS Mode	Manual 🗸
Primary DNS	
Secondary DNS	

### **Static IP:**

Set the IP Address, Subnet Mask and Default Gateway provided by your ISP.

Path:

Network >> WAN >> WAN IP Mode >> Select Static >> Save

Status     Network     Wireless       WAN     IPv6 Advanced     IPv6 WAN	SIP Account Phone Administration	Firmware Version V0.7.94.13 Current Tim <u>e 2023-08-11 13:18:0</u> Admin Mode [Logout] [Reboot]
F		Help
WAN WAN IP Mode MAC Address Clone Static IP Address Subnet Mask Default Gateway DNS Mode Primary DNS Secondary DNS	Static      Disable      192.168.1.23     Static IP     255.255.255.0     192.168.1.1     Manual      192.168.1.1	WAN IP Mode:     Static IP - Set the IP Address, Subnet     Mask and Default Gateway provided     by your ISP.     DHCP - IP Address, Subnet Mask and     Default Gateway will be issued by the     local DHCP Server.     PPPOE - Set the PPPOE Account and     PPPOE Password provided by your ISP.     NAT - The product will be the same as a router.



### 2. VPN:

It protects its users by encrypting their data and masking their IP address. This hides their browsing activity, identity and location, allowing for greater privacy and autonomy.

PPTP/L2TP- The Initial Service IP is the IP address of the server proving PPTP/L2TP services.

Path:

N	Network >> VPN >> OpenVPN >> Save & Apply
---	---

Status	Network	Wireless	SIP Account	Phone	Administration	
WAN	IPv6 Advanced	IPv6 WAN	VPN			
VPN Se	ttings					
Administra	ition					
VPN Ena	ble		Disable V			
			OpenVPN			
			PPTP Save & Apply	Save Ca	ncel Reboot	

• Add user name and password to add VPN.

Status Network Wireless	SIP Account Phone Administration
WAN IPv6 Advanced IPv6 WAN	
VPN Settings	
Administration	
VPN Enable	OpenVPN V
User Name	
Password	
OpenVPN TLS Auth	Disable 🗸
VPN As Default Route	Disable 🗸
	Save & Apply Save Cancel Reboot

## Wireless Setting with GUI

1. Wireless:

Wireless is used to maintain Wi-Fi settings.

Path:

Wireless >> Wireless >> Wireless Connection



- To connect Wi-Fi with GUI go to Wireless Connection and select the Wi-Fi.
- Then click on connect and Save & Apply.

Connection Status	Connected (AP: Neron)		
SSID	Authentication	Encryption	Status
Neron	WPA1PSK/WPA2PSK	TKIP/AES	i 🖌 🛩
Marqual 2	WPA1PSK/WPA2PSK	TKIP/AES	aiil
Ehook	WPA1PSK/WPA2PSK	TKIP/AES	
JTIL	WPA1PSK/WPA2PSK	TKIP/AES	
HP-Print-69-LaserJet Pro MFP	OPEN	NONE	
Airter_Techkraft	WPA1PSK/WPA2PSK	TKIP/AES	100
[mv_32	WPA1PSK/WPA2PSK	TKIP/AES	
NETSUTRA_AIRTEL	WPA1PSK/WPA2PSK	TKIP/AES	
DIRECT-D1-HP Smart Tank 510	WPA2PSK	AES	lin.
94108DRC	WPA1PSK/WPA2PSK	TKIP/AES	lln.
DRC 94108	WPA1PSK/WPA2PSK	TKIP/AES	l]]]n.
Connect Refresh Add			

### **Account Configuration**

### **1.** SIP Account:

SIP Account is used to register the account. We can register multiple accounts according to the model of NXP IP Phone.

Path:

SIP Account >> Linen 1 / Line 2

### **Subscriber Information**

- To add Account go to SIP Account then click on Line 1 or Line 2.
- Now enable the line and fill the subscriber information (Display name, Phone number, Account and Password)

**NEORMATICS** 

#### SIP Server 1/ Proxy Server

• After that add **Proxy server** and **outbound server**.

Status Network Wirel	ess SIP Account Phone	e Administration		
Line 1 Line 2 SIP Setting	s VoIP QoS Ring			
Basic				Не
Register Status				Basic
Register Status	Registered			by yo
Basic Setup				
Line Enable	Enable 🛩			Audi
Subscriber Information				match
Display Name	703	Phone Number	703	settin
Account	703	Password	•••••	Supp Subs
SIP Server 1				Call V
Proxy Server	192.168.1.164	Proxy Port	5060	comir
Register Refresh Interval (sec)	1800	Transport	UDP 🗸	Prox
Proxy Server				Differ
Outbound Server	192.168.1.164	Outbound Port	5060	be co
Backup Outbound Server		Backup Outbound Port	5060	interc
Allow DHCP Option 120 to Override SIP Server	Enable 🗸			a SIP
				Adva
				Advar

### Codec Setup

- Now go to codec setup and set the codec configuration according to the requirement.
- Recommended alaw/ulaw codec.

Audio Configuration			
dec Setup			
Audio Codec Type 1	G.711U 🖌	Audio Codec Type 2	G.711A 🗸
Audio Codec Type 3	G.729 🖌	Audio Codec Type 4	G.722 🗸
Audio Codec Type 5	OPUS 🗸	Audio Codec Type 6	ilbc 🗸
Audio Codec Type 7	G.723 🗸	G726 Payload	110
G.723 Coding Speed	5.3k bps 🗸	Packet Cycle (ms)	20 🗸
Echo Cancel	Enable 🖌		
Auto Gain Control	Disable 🗸	Use First Matching Vocoder in 2000K SDP	Disable 🗸
Codec Priority	Remote 🗸	Packet Cycle Follows Remote SDP	Disable 🗸

#### SIP Advanced Setup

- Now come to SIP Advance setup and go to Remove Last Reg select enable or disable as per requirement.
- Now go to SIP Advance setup and "Enable" Sync Clock Time.
- Save & Apply.



P Advanced Setup			
Domain Name Type	Enable 🗸	Carry Port Information	Disable 🗸
Signal Port	51455	DTMF Type	RFC2833
RFC2833 Payload (>=96)	101	Call-ID Prefix	
Caller ID Header	FROM 🖌	Remove Last Reg	Disable 🗸
Session Refresh Time (sec)	0	Min Session Timer(sec)	90
Refresher	UAC 🗸	Enable SIP OPTIONS	Enable 🗸
Initial Reg With Authorization	Enable 🗸	Reply 182 On Call Waiting	Disable 🖌
Primary Server Detect Interval	0	Max Detect Fail Count	3
NAT Keep-alive Interval (10- 60s)	15	Anonymous Call	Disable 🗸
Anonymous Call Block	Disable 🗸	Proxy DNS Type	A Type 🖌
Use OB Proxy in Dialog	Disable 🗸	Complete Register	Disable 🗸
Enable Reg Subscribe	Disable 🗸	Reg Subscribe Interval (sec)	0
Dial Prefix		User Type	IP 🖌
Hold Method	ReINVITE 🗸	Request-URI User Check	Enable 🗸
Only Recv Request From Server	Enable 🗸	Server Address	
RPort	Enable 🗸	VPN	Disable 🗸
SIP Encrypt Type	Disable 🗸	RTP Encrypt Type	Disable 🗸
SRTP	Disable 🗸	SRTP Encryption	AES_CM & ARIA_CM
Country Code		Remove Country Code	Disable 🗸
Tel URL	Disable 🗸	Use Random SIP Port	Enable 🗸
Min Random SIP Port	50000	Max Random SIP Port	60000
Prefer Primary SIP Server	Disable 🗸	Hold SDP Attribute Inactive	Disable 🗸
BLF List URI		BLF List Pickup Code	
Remove All Bindings	Disable 🗸	Enable SIP 100REL	Disable 🗸
Conference Type	Local Conference 🗸	Conference URI	
VAD&CNG	Disable 🗸	Distinctive Ring Tones	Disable 🗸
Alert Info Tone	Disable 🗸	Share Line Enable	Disable 🗸
Return Code When Refuse	486(Busy He 🗸	Return Code When DND	480(Tempora 🗸
User-To-User	Disable 🗸	UUI Content	
VQ RTCP-XR Collector name		VQ RTCP-XR Collector address	
VQ RTCP-XR Collector port		Allow IP Calls	Disable 🗸
SIP Send MAC	Disable 🗸	SIP Send Line	Disable 🗸
Eary Media Support	Enable 🐱	P-Early Medai Support	Enable 🗸
SIP Remote-Party-ID	Disable 🗸	SIP Session ID Support	Disable 🗸
Missed Call Log	Enable 🗸	Sync Clock Time	Enable 🗸
Callee ID Header	PAID-RPID 🗸		
SIPS Scheme Enable When TLS	Disable 🗸	Use Connection Port	Enable 🗸
SDP UNENCRYPTED SRTCP Enable	Enable 🗸		

## **Phonebook Setting**

### 1. Phone:

**Line Key** is used to use different features on different Lines.

The function of a key can be changed according to different needs.

Path:

Phone >> Line Key >> Line Key1/Line Key2 >> Save

ferences	Programmable Key	Line Key	Dial	Rule Phone Book	Call Log Action U	JRL Web Dial	Multicast IP
skey							Help
Kov	Time	Line		Value	Label	Extension	SpeedDial:
Line Key	PLE Y	Line	~	702	702	Z02	simplified speed dial key. This key
Line Keyi	Ular V			702	/02	702	function allows you to easily access the most frequently dialed numbers
Line Keyz	N/A	Linez	•				are most requertly dialed numbers.
	History						EventType:
	Local Group		Savo	Cancol Roboot			The function of a key can be change
	Directory		Save				according to different needs.
	LDAP						
	Menu						
	DND SpeedDial	pyright	© 20	22-2033 Neron Inte	ormatics PVt Ltd.	All rights reserv	ea.
	DND SpeedDial Status	pyright	© 20	22-2033 Neron Inf	ormatics pvt Ltd.	All rights reserv	ea.
	DND SpeedDial Status Line	pyright	© 20	22-2033 Neron Inf	ormatics Pvt Ltd.	All rights reserv	εα.
	DND SpeedDial Status Line XML Browser	pyright	© 20	22-2033 Neron Inf	ormatics PVt Lto.	All rights reserv	eu.
	DND SpeedDial Status Line XML Browser BLF	pyright	© 20	22-2033 Neron Inf	ormatics Pvt Ltd.	All rights reserv	εα.
	DND SpeedDial Status Line XML Browser BLF BLF List	pyright	<u>©</u> 20	22-2033 Neron Inf	ormatics pyt Ltd.	All rights reserv	60.
	DND SpeedDial Status Line XML Browser BLF BLF List Paging	pyright	<u>© 20</u>	22-2033 Neron Inf	ormatics PVC Ltd.	All rights reserv	60.
	DND SpeedDial Status Line XML Browser BLF BLF List Paging List Paging List	pyright	<u>© 20</u>	22-2033 Neron Inf	ormatics PVC Lto.	All rights reserv	εα.
	DND SpeedDial Status Line XML Browser BLF BLF List Paging Paging List Intercom Dick Up	pyright	<u>© 20</u>	22-2033 Neron Inf	ormatics pyr Ltd.	All fights reserv	εα.
	DND SpeedDial Status Line XML Browser BLF BLF List Paging Paging List Intercom Pick Up Group Dick Up	pyright	<u>© 20</u>	22-2033 Neron Inf	ormatics pvt Ltd.	All fights reserv	εα.
	DND SpeedDial Status Line XML Browser BLF BLF List Paging Paging List Intercom Pick Up Group Pick Up Call Park	pyright	<u>© 20</u>	22-2033 Neron Inf	ormatics pvt Ltd.	All fights reserv	εα.





#### **Phone Book**

Path:

Phone >> Phone Book >> Save & Apply

	Status Network Wireless SIP Account Phone Administration	
Γ	Preferences Programmable Key Line Key Dial Rule Phone Book Call Log Action URL Web Dial M	ulticast IP
	Phone Book Upload & Download	Help
P	Local File Choose File No file chosen   Upload CSV Download CSV	Phone B This list s entries. Please cliu save this item.
P	Local File Choose File No file chosen Upload XML Download XML	Blacklist Telephone cannot be

[Phone Book Upload & Download: Excel or CSV file can be uploaded or Downloaded here.]

<u>Call Log</u> shows all call details like redial list, Answered Calls, Missed Calls.

Path:

Phone >> Call Log
-------------------

#### **Redial List**

Statu	s Network Wirele	ss SIP Account	hone Administ	ration	
Prefer	ences Programmable Ke	y Line Key Dial Rule	Phone Book	Call Log Action URL	Web Dial Multicast IP
Red	ial List				Неір
Index	Local Number	Remote Number	Start Time	Duration	<b>^</b>
1	702	111	01/02 04:19	00:00:03	
2	502	111	01/02 04:19	00:00:07	
3	502	501	01/03 09:48	00:00:18	
4	702	501	01/03 10:16	00:00:00	
5	502	501	01/03 10:17	00:00:22	
6	702	8001	01/03 11:54	00:00:05	

#### **Answered Calls**

12	/02	101	01/04 09.04	00.00.00	
Answ					
Index	Local Number	Remote Number	Start Time	Duration	
1	502	509	01/02 04:18	00:00:10	
2	502	111	01/02 04:24	00:00:06	
3	502	509	01/02 04:29	00:00:06	
4	502	111	01/02 04:35	00:00:09	
5	502	501	01/03 09:46	00:01:10	





### **Missed Calls**

Misse	d Calls				
Index	Local Number	Remote Number	Start Time	Duration	
1	702	+91	01/04 08:05	00:00:00	
2	702	+91	01/04 08:06	00:00:00	
3	702	701	01/04 09:04	00:00:00	
4	702	8001	06/30 18:53	00:00:00	
5	702	703	07/03 15:13	00:00:00	

### **Firmware and Admin**

### **1.** Administration:

### **Management**

Path;---

Administration >> Management >> Save & Apply

• In **Save Config File** we can upload or Download configuration file backup and we can export local log also from **Local Log**.

### Save Config File

Status	Network	Wireless	SIP Account	Phone	Admini	stration			
Manageme	ent Firmw	are Upgrade	Certificates	Provision	TR-069	Diagnosis			
Save Co	onfig File Upload & Do	wnload							H
Local File	[	Choose File Upload Dow	No file chosen /nload						spec up [ opti- rout time
Local Log									Adr
Export Lo	cal Log	Download							Wel to o Inte



- Administrator Settings used to change user name and password.
- Language can be change here.

### **Administrator Settings**

Administrator Settings	
Password Reset	
User Type	Admin User 🗸
New User Name	admin
New Password	(The maximum length is 25)
Confirm Password	
Language	
Language	English V

• Enable NTP to set time and date. Select Time Format and Time Zone then set the Primary NTP Server and Secondary NTP Server, now Save & Apply.

Time/Date Setting

P Settings	
NTP Enable	Enable 🗸
Option 42	Disable 🗸
Current Time	2023 - 08 - 17 . 11 : 52 : 27
Sync with host	Sync with host
Time Format	24 Hour 🗸
Time Zone	(GMT+05:30) India
Daylight Saving Time	💿 Disable 🔿 Enable 🔿 Auto
Primary NTP Server	95.216.144.226
Secondary NTP Server	in.pool.ntp.org
NTP synchronization (1 - 1440min)	60

• To Reset the device just Click on Factory Default.

#### **Factory Default**

Factory Default							
Reset to Factory Default	Factory Default						
		Cours 9, Apply	Carro	Cancel	Debeet		
		Save & Apply	Save	Cancel	Rebool		



### Firmware Upgrade

Path:

Administration >> Firmware Upgrade >> Upgrade

- Click on the **Browse** button to select the firmware file to be uploaded to the router.
- Click the Upgrade button to begin the upgrade process.
- Once begun, the Upgrade process must not be interrupted.

Status Network Wireless SIP Account Phone Administration
Management Firmware Upgrade Certificates Provision TR-069 Diagnosis
Firmware Management
Action When Upgrade
remove current configuration Disable ✓ Save
Firmware Upgrade
Local Upgrade Choose File No file chosen
Upgrade
Upgrade



Web: www.nerontech.com

## NERON NXP 5xx SIP PHONE

Support Portal Email Helpdesk

Customer Helpdesk No. Partner Helpdesk No.

Sales Desk No.

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