NXIPBRIDGE

Compact Installation & Setup Guide

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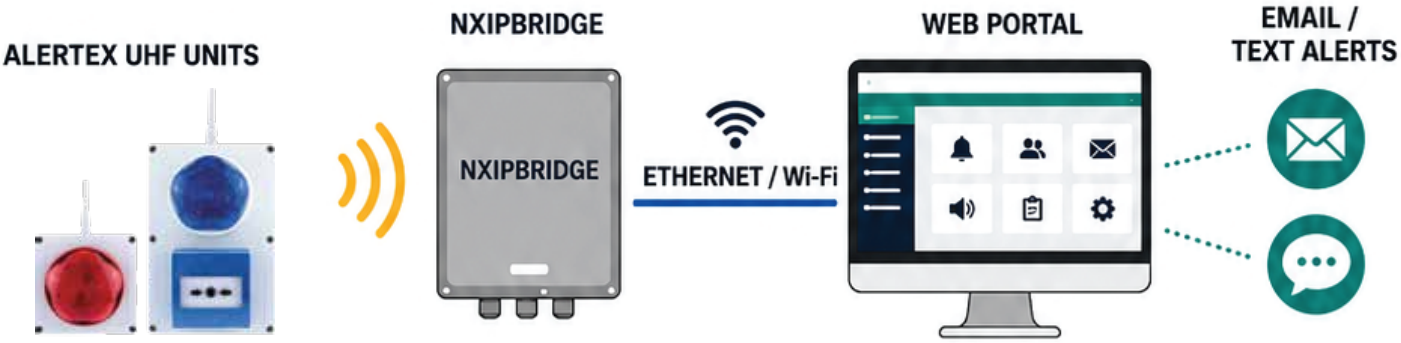
QUICK START – 6 SIMPLE STEPS

1. Power the bridge
2. Connect by Bluetooth
3. Set site / subnet / network
4. Open the web portal
5. Add units & alerts
6. Test the system

SYSTEM OVERVIEW



The NXIPBRIDGE connects Alertex UHF devices to your local network and internet so alarms, missed call-ins and low-battery events can be monitored in one place.
Up to 64 units can report to one bridge.

BEFORE YOU BEGIN

- 12V DC PSU or PoE available
- Smartphone with BLE terminal app
- Ethernet or Wi-Fi details ready
- Site code and subnet known
- Unit list / zone names ready

POWER AND RELAYS

12V

Connect to the DC input.

Check polarity before connecting power.

PoE

Plug into the Ethernet connector.

Use the same network as the setup PC.

OUTPUT

D1 + GND: Use D1 and GND as a loop/output trigger to activate other connected systems.

INPUT

IN1 + GND: Use IN1 and GND as the input trigger to activate or signal the NXIPBRIDGE.

DEFAULT ACCESS

WEB PORTAL
http://<bridge IP>:8081

WEB PASSWORD
password1234

BLE PIN
123456

INSTALLER TIP

For first setup, DHCP is easiest. If the bridge IP changes after a reboot, reserve the address in the router or set a static IP later.

NXIPBRIDGE | Bluetooth Configuration & Network Setup

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CONNECT BY BLUETOOTH

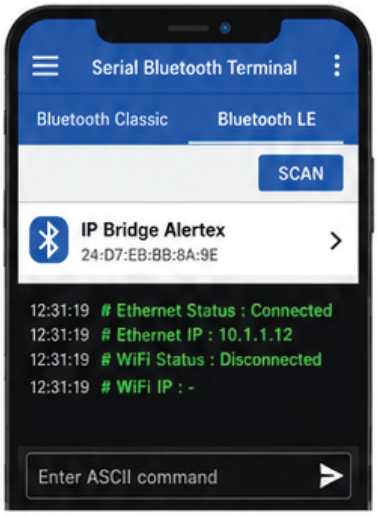
Use a BLE terminal app to find the bridge IP address and enter setup commands.

ANDROID APP
Serial Bluetooth Terminal
GET IT ON Google Play

iPHONE APP
BLE Terminal HM-10
Download on the App Store

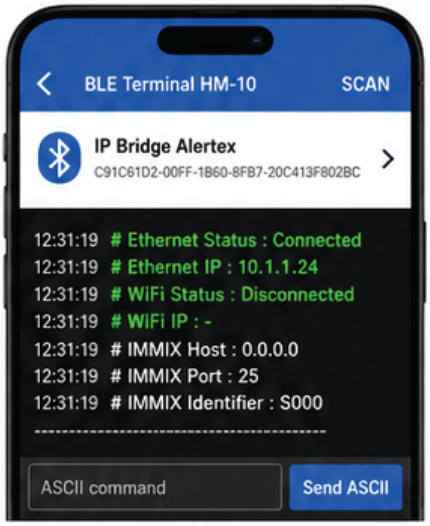
ANDROID

1. Open Serial Bluetooth Terminal.
2. Menu > Devices > Bluetooth LE > Scan.
3. Select "IP Bridge Alertex".
4. The IP address appears in the terminal.



iPHONE / iOS

1. Open BLE Terminal HM-10.
2. Tap Scan and select "IP Bridge Alertex".
3. The terminal opens.
4. The IP address appears in the terminal.



BLE COMMAND CHEAT SHEET

COMMAND	PURPOSE
help	show commands
version	show firmware version
site=1	set site code (1–32)
subnet=1	set subnet (1–8)
wifi=<SSID>;<Password>	connect bridge to Wi-Fi
ip=192.168.0.14/24	set static IP
ip=192.168.0.14/24;192.168.0.10	set static IP + gateway
dns-ip=8.8.8.8	set DNS IP
ip=dhcp	return to DHCP
passkey=123456;654321	change BLE PIN
freq=<band>	set UHF band / frequency

NETWORK RULES

PRIVATE IPv4 ADDRESS RANGES

RANGE (CIDR)	START ADDRESS	END ADDRESS
10.0.0.0/8	10.0.0.0	10.255.255.255
172.16.0.0/12	172.16.0.0	172.31.255.255
192.168.0.0/16	192.168.0.0	192.168.255.255

Use private IPv4 addresses for bridge IPs. Check with the network administrator before assigning static IPs.

STATIC IP & WI-FI EXAMPLES

- **To join Wi-Fi:** send wifi=<SSID>;<Password>, unplug Ethernet, reconnect in the BLE app, and confirm a Wi-Fi IP appears.

Default simple static IP example:
ip=192.168.0.14/24

Manual gateway example:
ip=192.168.0.14/24;192.168.0.10

Incorrect IP, gateway or DNS settings can make the bridge unreachable.

MASTER / SLAVE BRIDGE NETWORK EXAMPLE

Use different static IP addresses.
If required on site, assign unique bridge frequencies using **freq=<band>**. Default band 0 = 434.525 MHz; available band range is -11 to 2.

NXIPBRIDGE | Web Portal Setup, Units & Testing

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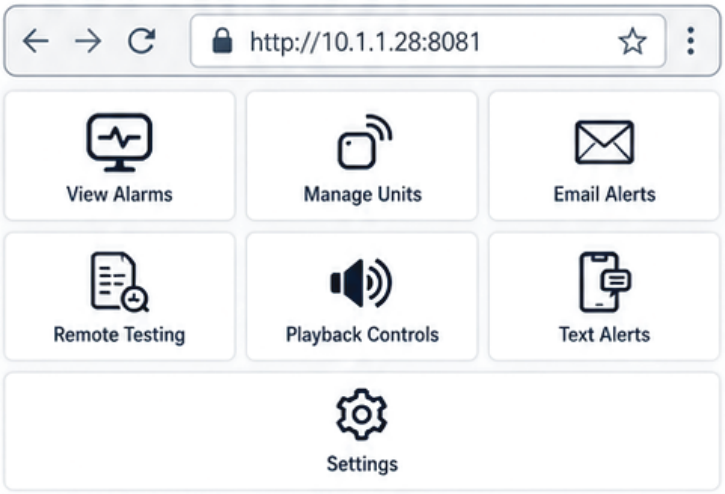
1 PORTAL ACCESS

Open a browser and go to
http://<bridge IP>:8081



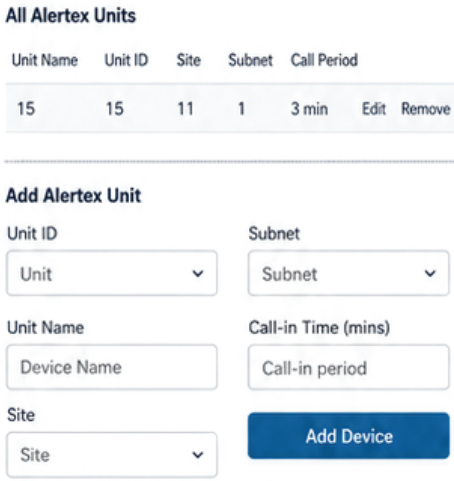
2 SETTINGS CHECKLIST

- Set bridge name / identifier
- Heartbeat frequency: **1 - 100**, **default 60**
- Missed-call trigger: **1–10** calls
- Event history retention: **24–96** hours
- Low battery threshold: below **60%** to below **20%**
- Site number: **1–32**
- Subnet number: **1–8**
- Unit number: **1–64**
- UHF frequency: usually leave on standard
- Click **Save Settings**

Factory Reset restores defaults.

3 MANAGE UNITS

1. Existing units appear under All Alertex Units
2. Remove a unit with Remove
3. Edit name and call period where supported
4. Add a unit by entering Unit ID, Unit Name, Site, Subnet, and Call-in Time
5. Site and subnet must match the bridge
6. Click **Add Device**



4 VIEW ALARMS

1. Events show name, unit number, site, subnet, event type and time
2. Test mode sets call-in period to 3 minutes for the active site
3. Monitored units show battery, signal strength and last seen

Units Being Monitored

Unit Name	Unit ID	Site	Subnet	Call-in	Battery	Signal	Last Seen
45	45	7	1	3 min	100%		0h:1m:34s

5 REMOTE TESTING

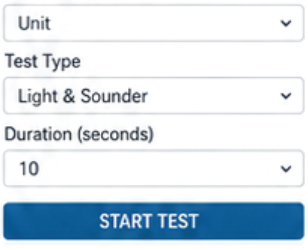
WHOLE SITE TEST

- Press Start to simulate an alarm across the site
- Press Stop to end the test

START | STOP

INDIVIDUAL UNIT TEST

1. Select one unit or all units
2. Choose the test type
3. Set duration from 1–20 seconds
4. Click **Start Test**



IMPORTANT NOTES:

- Wait 5 minutes between Start and Stop.
- For routine weekly/monthly testing, keep duration to 20 seconds max for battery life.

6 INSTALLER NOTES

- Units are often supplied as Site 1 unless specified otherwise.
- If 60 is set on the board, use 100 minutes in the portal.
- If a unit is not being monitored, set the call period to maximum for best battery life.
- Wireless call-points and keyfobs do not use call-in periods.

NXIPBRIDGE

Linked Bridges, Alerts & Troubleshooting

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1 LINKING MASTER & SLAVE BRIDGES

Use this section only when a slave bridge must be linked to a master bridge.

1. Assign unique static IP addresses to both bridges
2. If required, assign unique bridge frequencies
3. On the master bridge, open **Linked Bridges**
4. Add the slave using:
   - the 12-digit remote slave ID from the BLE terminal
   - the static IP address of the slave bridge
   - the UHF Site Code
   - a **Zone Name**
5. Click **Create Link**

EXAMPLE

Master: 192.168.1.100

Slave: 192.168.1.101

2 AFTER LINKING

- Open **Manage Units** on the master bridge
- Add each unit and assign the correct zone
- Confirm all units appear on the monitor / alarms page

3 SILENT TEST & FINAL VERIFICATION

OPTION 1: USING MASTER UNITS

- Identify the master unit for the site
- Use the key to trigger and walk-test the unit

OPTION 2: REMOTE TESTING

- Open Remote Testing on the master bridge
- Select each zone individually
- Activate the test and verify the response

FINAL VERIFICATION

- ✓ All units report back
- ✓ Alarms trigger correctly
- ✓ If issues occur, re-check IP configuration and unit linking

4 EMAIL ALERTS

- Enter SMTP server details and Save
- Add email recipients
- Choose notification types: Alarm, Missed Call-in, SOS, Low Battery
- Saved recipients appear in the list

NOTE

Avoid anonymous SMTP; follow your provider's guidance.

5 TEXT ALERTS

- A Twilio account is required
- Enter Account SID, Auth Token and sending number
- Add recipient mobile numbers with country code, e.g. +44…
- Select the event types to notify: Alarm, Missed Call-in, SOS, Low Battery
- Saved numbers appear in the recipient list

NOTE

Missed call-ins and low-battery alerts are best sent to the people maintaining the system.

6 PLAYBACK CONTROLS

- For NXVS voice annunciators only
- Select one unit or all units
- Choose file index and Start Playback
- Stop Playback to end the test
- Use Set Parameter to change menu parameters

7 TROUBLESHOOTING / FAQ

"No IP yet" in BLE app?	Check internet / DHCP on the LAN
IP changes after reboot?	Reserve the address on the router or set a static IP
Change web password?	Settings page
Change BLE PIN?	Use: passkey=<current pin>;<new pin>
Forgot password or BLE PIN?	Firmware recovery / reflash is required
How long do web sessions last?	Up to 8 hours and sign out after 1 hour of inactivity

8 INSTALLER HANDOVER CHECKLIST

- ☐ Bridge online
- ☐ Site / subnet confirmed
- ☐ Units added
- ☐ Alerts configured
- ☐ Full test passed

INSTALLER TIP — *Keep a record of IP addresses, bridge IDs, site code and zones for future reference.*