Nextion Kit User Guide

The Nextion Kit has all of the capabilities of the ZUMspot all packaged up in a clear case with a Nextion display on top.

Specifications:

- High performance 32-bit ARM processor
- ZUMspot Board Fully Assembled And Tested
- Supports DMR, P-25, D-Star, System Fusion, NXDN and POCSAG
- Onboard LEDs to show status (Tx, Rx, PTT, Mode)
- Up to 10mW RF power
- SMA antenna connector, UHF antenna included
- Mounted on Raspberry Pi Zero WH
- The firmware is pre-loaded and is easily upgraded via software.
- Built-in 3.5" Nextion display
- 2.4A power supply
- 1 Year Warranty
- Open source firmware (MMDVM) and board design

The ZUMspot RPi Nextion 3.5 Kit Package Includes:

- ZUMspot RPi UHF Board
- Raspberry Pi Zero WH
- Custom case
- 2.4A power supply
- 3.5" Nextion Enhanced display
- UHF Antenna
- Pre-Imaged 16 GB MicroSD Card with Pi-Star Software

Setup:

- Make sure the SD card is installed in the Raspberry Pi Zero WH
- Install the antenna into the RF connector. There is an opening on the side which is where the antenna is connected.

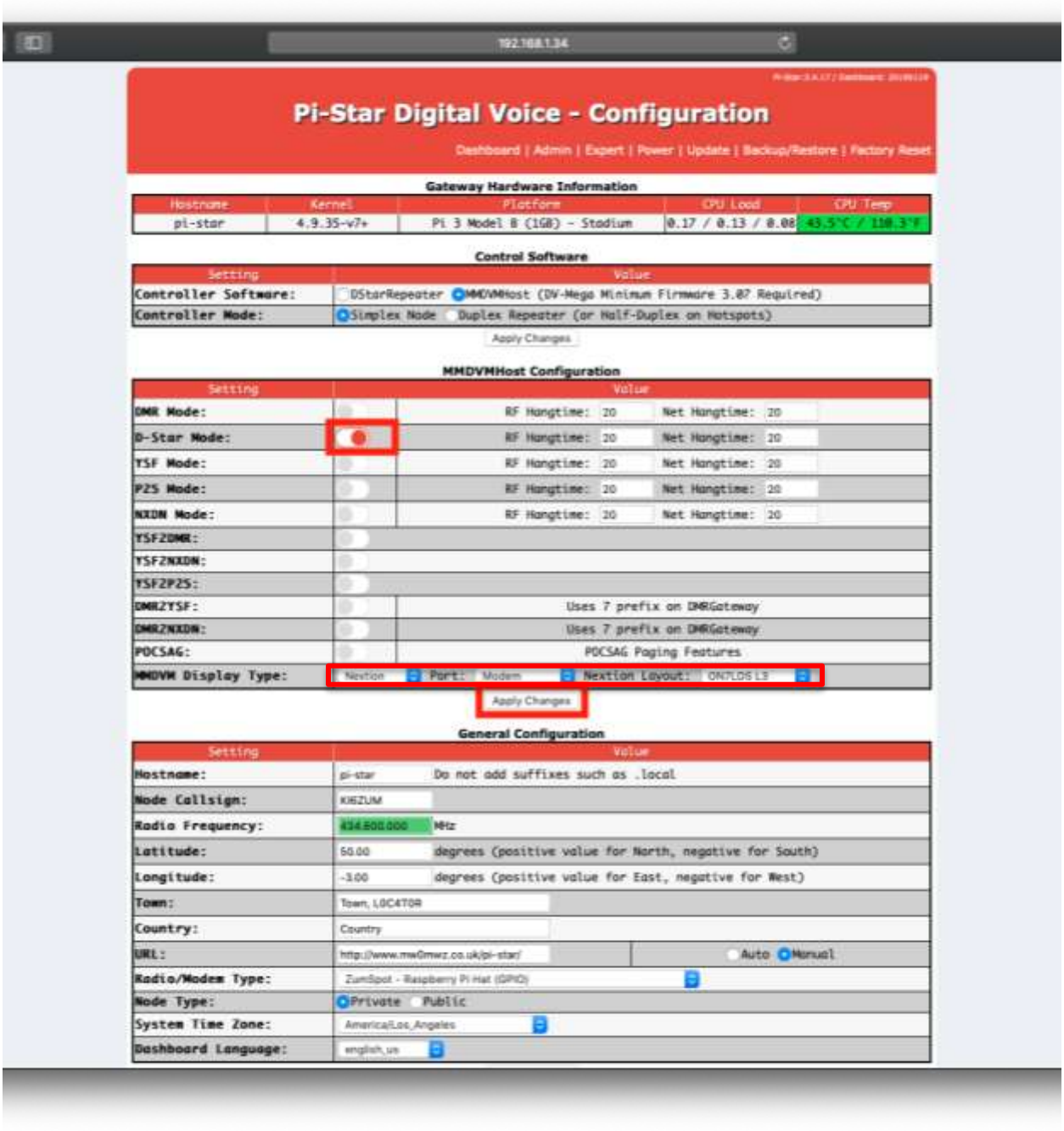
Powering up:

- Plug in the USB micro power cable to your Nextion Kit. Then plug the cable into the wall adapter and insert that into an AC outlet.
- If the Nextion Kit doesn't power up, then press the switch on the cable and it should power up now.

Setup Pi-Star:

Configure display type:

- In the **“MMDVMHost Configuration”** section
- Make sure **“MMDVM display Type”** is set to **“Nextion”**
- Make sure **“Port”** is set to **“Modem”**
- Make sure **“Nextion Layout”** is set to **“ON7LDS L3”**

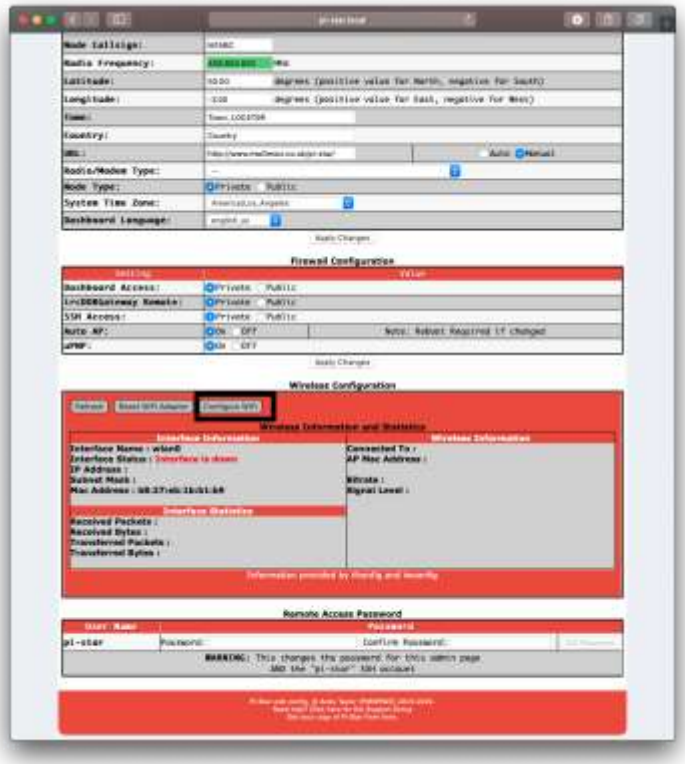


Wi-Fi:

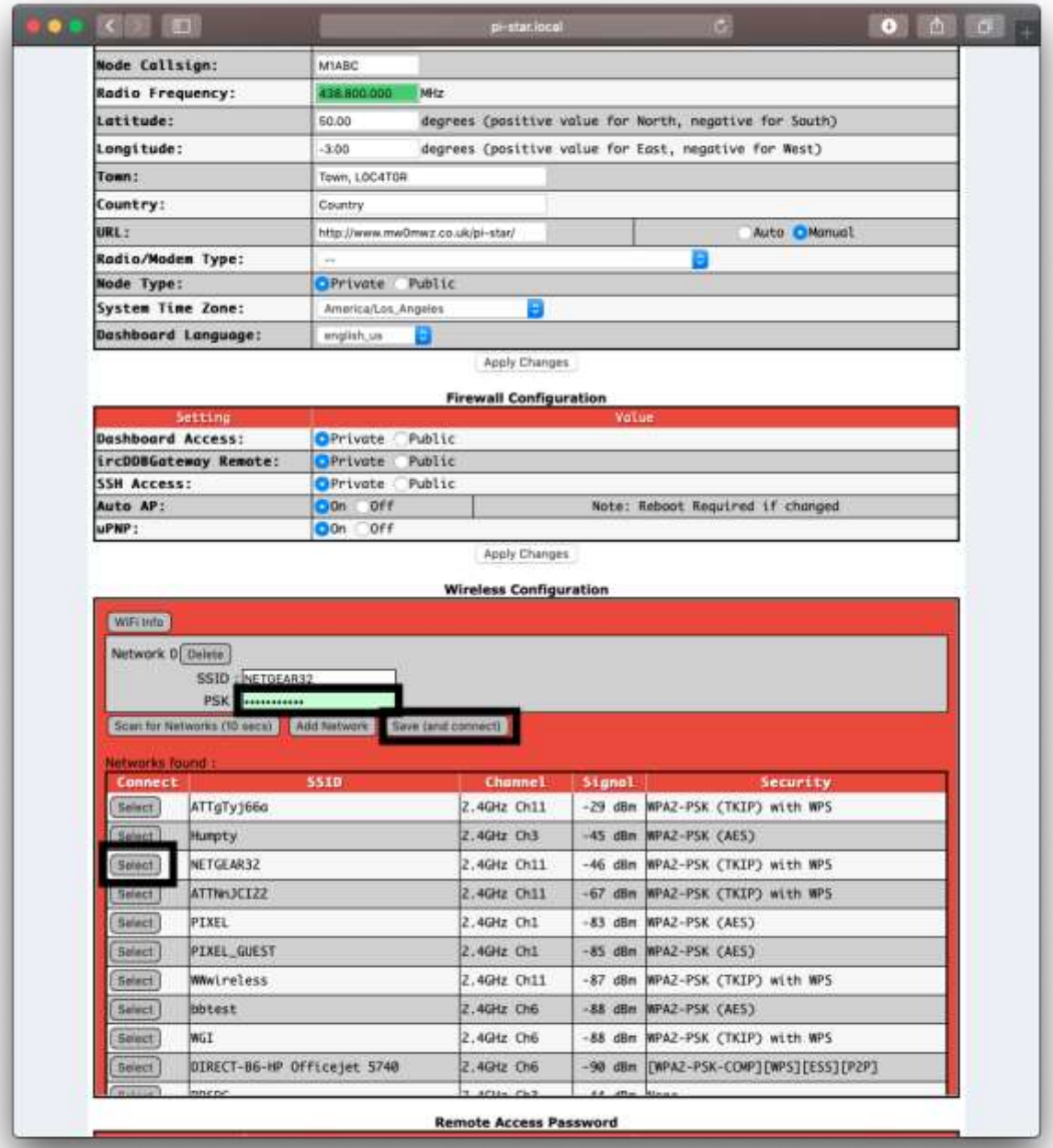
- Power up the Nextion Kit.
- After 3 minutes, scan for Wi-Fi access points from your phone or laptop. One should appear with the name "**Pi-Star-Setup**"
- Connect to it. When asked for the Wi-Fi password type in: raspberry
- After 3 minutes, go to your web browser (Chrome, Firefox, etc.) and connect to the website:
  http://pi-star (for Windows, Linux and Android devices
  http://pi-star.local (for OS X and iOS devices)
- You should see this page.

- Go to ***Configuration***
  - You will be asked to put in the default username which is "**pi-star**" and the default password which is "**raspberry**"

- Select “**Configure Wi-Fi”** and then click on ***“Scan for Networks (10 secs)”***



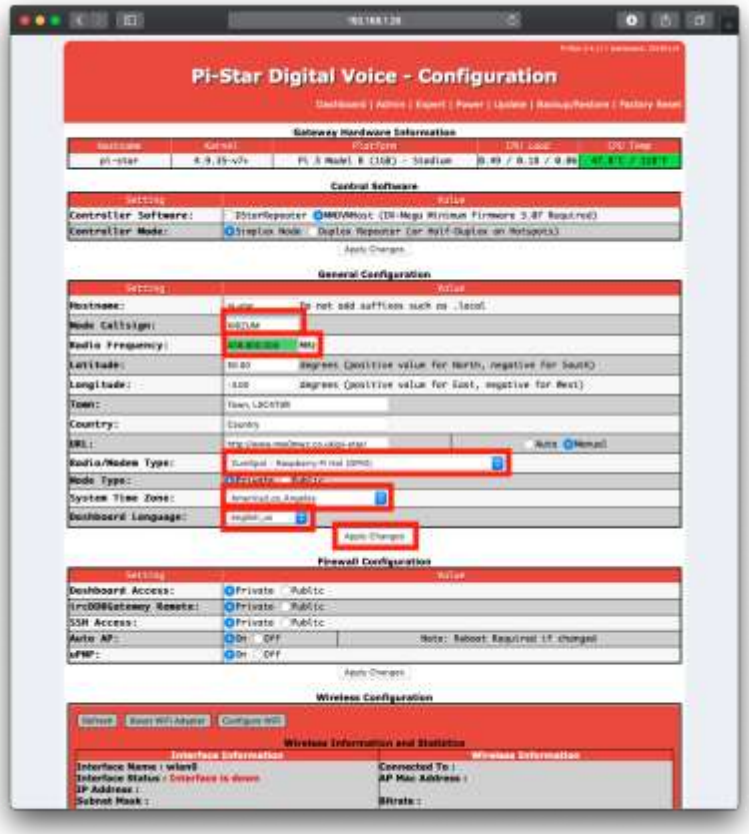
- Select your Wi-Fi SSID and enter your password.
- Click on "**Save (and connect)"** to save the Wi-Fi configuration



- Reboot your Nextion Kit

Configuration:

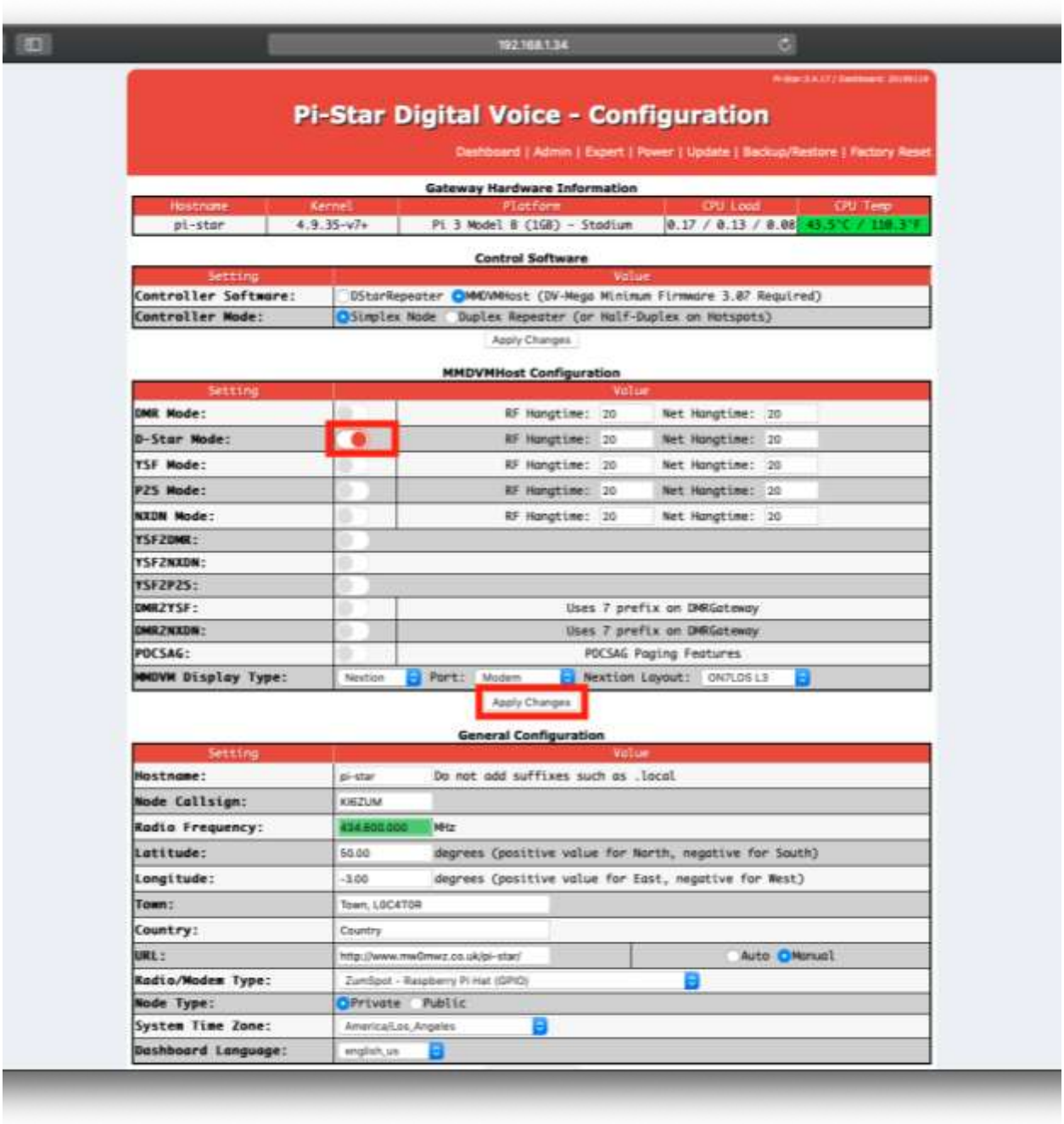
- Change the Node Callsign to your own, set the **“Radio Frequency”** to match your radio and make sure the “**Radio/Modem Type**” is set to “**ZUMspot - Raspberry Pi Hat (GPIO)**”, set the “**System Time Zone**” to your time zone, and set the “**Dashboard Language**” to the language you prefer.



- Click “**Apply Changes”** when you are done

Configuration (example to enable D-Star):

- Now you can turn on D-Star by selecting the "**D-Star Mode"** switch and clicking "**Apply Changes"**



Finished:

Once you have completed the Pi-Star configuration you can start using the Nextion Kit to connect to DSTAR, DMR and other networks.

There is more information on configuring and using Pi-Star in this document.
https://amateurradionotes.com/images/1-Playing_with_Pi-Star.pdf

Support:

MMDVM groups.io group:
https://groups.io/g/OpenDV

Pi-Star support forum:
https://forum.pistar.uk/

Pi-Star Facebook support group:
https://www.facebook.com/groups/pistar/

Pi-Star Wiki:
http://wiki.pistar.uk

ZUM Radio Facebook group:
https://www.facebook.com/groups/249802742395450/