ZUMspot RPi Elite 3.5" LCD Kit User Guide

The ZUMspot RPi Elite 3.5" LCD kit has the capabilities of the ZUMspot all packaged in a clear case with a 3.5" LCD screen on top.



ZUMspot board 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 3B+
- The firmware is pre-loaded and is easily upgraded via software

The ZUMspot RPi Elite 3.5" LCD Kit Package Includes:

- ZUMspot RPi UHF Board
- Raspberry Pi 3B+
- Custom case
- 3A power supply
- 3.5" LCD screen
- UHF Antenna
- Pre-Imaged 16 GB MicroSD Card with Pi-Star Software
- 1 Year Warranty
- Open source firmware (MMDVM)

Setup:

- Make sure the SD card is installed in the Raspberry Pi 3B+
- Install the antenna onto the RF connector



Powering up:

- Plug in the USB micro power cable to your ZUMspot Elite 3.5" LCD kit. Then plug the cable into the wall adapter and insert that into an AC outlet.
- If the ZUMspot Elite 3.5" LCD kit doesn't power up, then press the switch on the cable and it should power up now.



Ethernet:

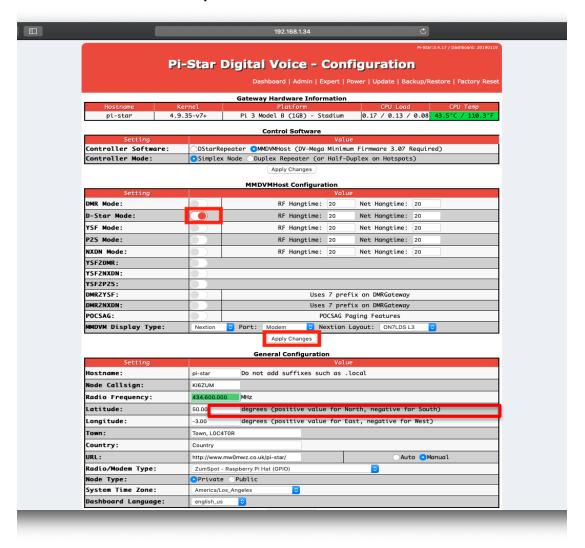
• If you are going to use Ethernet, plug the cable into the RJ45 connector on the end of the case.



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"



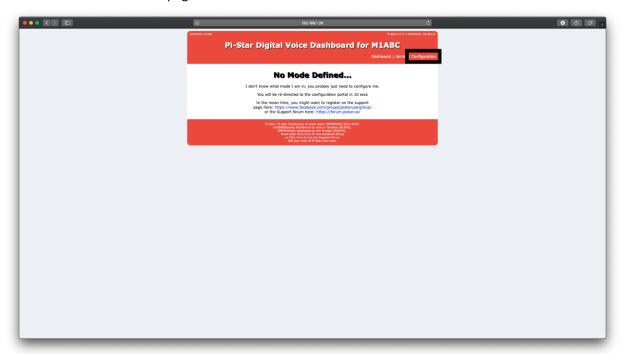
Ethernet:

• If you are using Ethernet, the IP address should automatically be retrieved by the DHCP system built into the PiStar software. No other configuration should be needed.

Wi-Fi:

- Power up the ZUMspot Elite 3.5" LCD 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

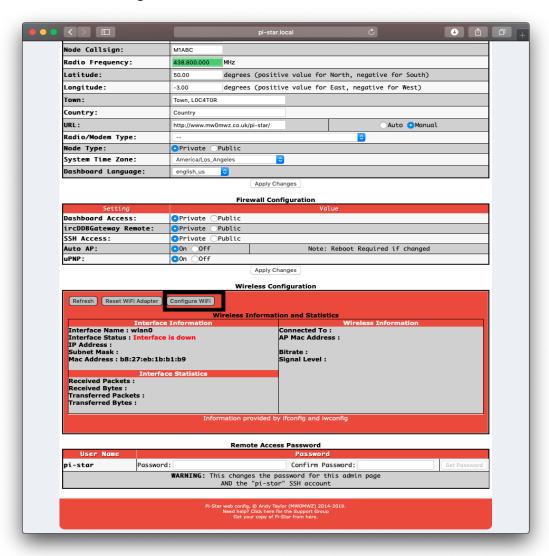
 http://pi-star.local. (for OS X and iOS devices)
- You should see this page:



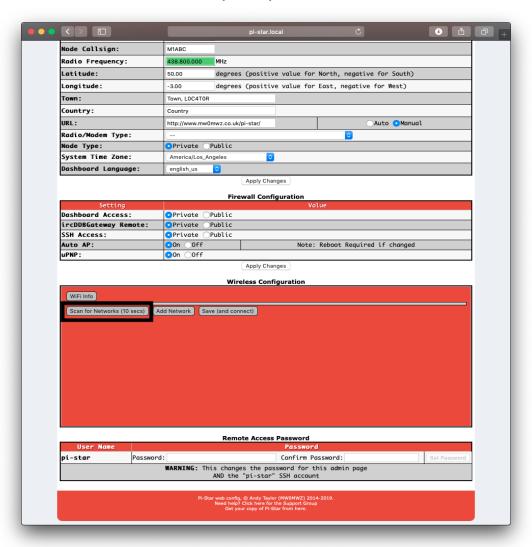
• Go to **Configuration**

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

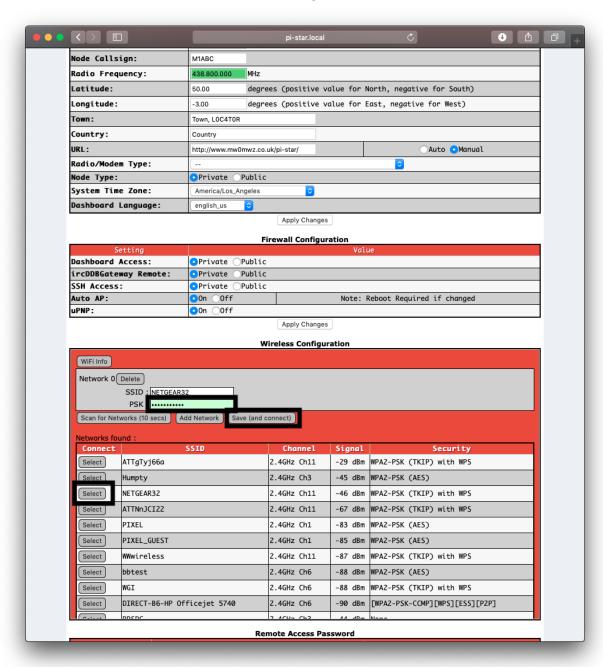
o Select "Configure WiFi



Click on "Scan for Networks (10 secs)"



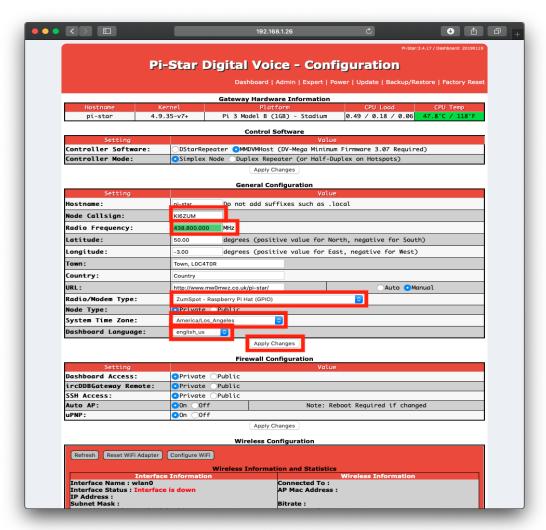
- Select your Wi-Fi SSID and enter your password.
- Click on "Save (and connect)" to save the Wi-Fi configuration



• Reboot your ZUMspot Elite 3.5" LCD kit

Configuration:

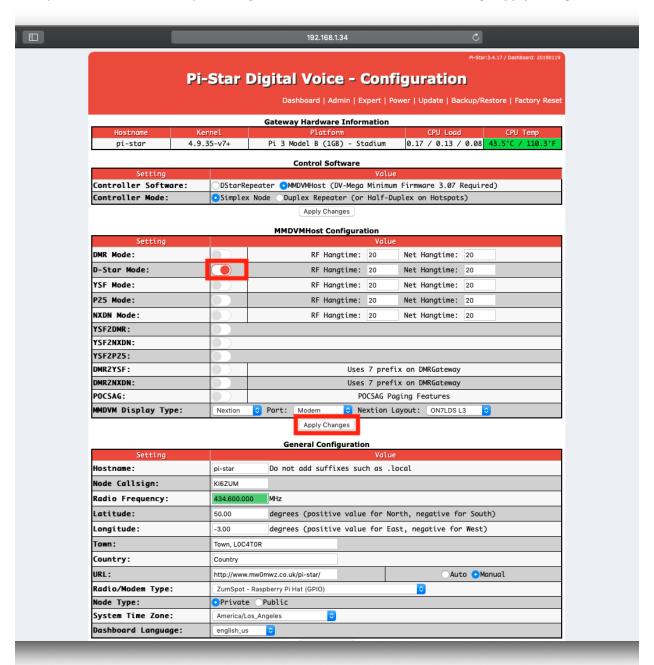
Change the Node Callsign to your own, set the "Radio Frequency" to match your radio and
make sure the "Radio/Modem Type" is set to "ZUMspot - Raspberry Pi Hat (GPIO)", set the
"System Time Zone" to your time zone, and set the "Dashboard Language" to the language you
prefer.



• 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 ZUMspot Elite 3.5" LCD 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/