DXMINI Quick Start Guide

Thank you for choosing DXMINI as your mobile digital hotspot!

Our quick start guide is created to get your station on the air with minimal and easy setup. Feel free to contact us with any questions you may have regarding your new DXMINI and we would be happy to assist you.

Email us at: sales@dxmini.com

Step 1: connecting to DXMINI from WiFi enabled computer, tablet, or phone
- Plug in your DXMINI and wait two minutes
- Locate the wireless network finder on your WiFi enabled computer, tablet, or phone
- Connect to the wireless network called "Pi-star" or "Pi-Star Setup"
- If asked for a username and password: pi-star / raspberry
- Open Internet Explorer or Chrome (Safari if using an apple device)
- Type the following in the address bar (URL):   pi-star.local/
- You will see the Pi-Star dashboard

Step 2: entering your station information
Once the DXMINI dashboard loads on your web browser, click on *"Configuration"*
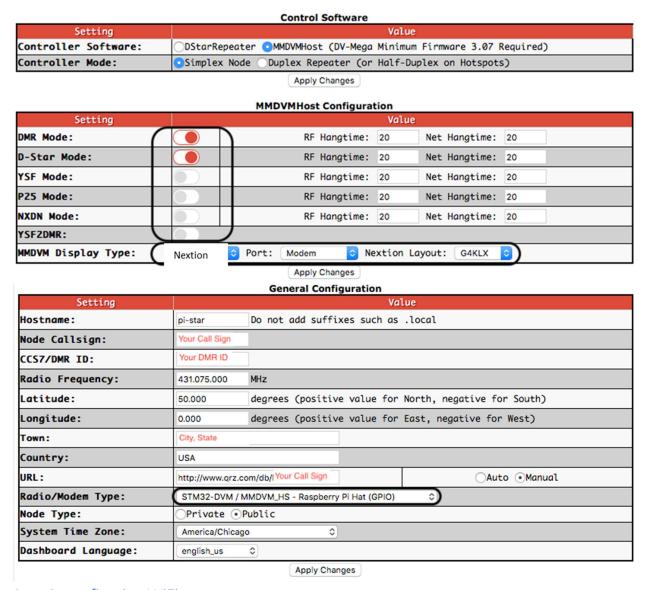

Enter user name: *pi-star*
Enter password: *raspberry*

- Click on "Configuration" located in the upper right-hand corner
- If asked for a username and password: pi-star   /   raspberry
- For the DXMINI, leave the setting to Simplex and update your desired simplex frequency
- For the DXMINI XL (duplex), change the setting to duplex and update your desired duplex frequency using a +5 offset

NOTE for the DXMINI XL: Remember the TX and RX will be backwards from what you program your radio to. The DXMINI is asking for the TX frequency it will send a signal to the receive frequency on the radio. For example, if you program your radio for 441.00 with a +5 offset, the TX frequency for the DXMINI would be 441.000 while the receive would be 446.000 as that is the frequency your radio will be transmitting.

- Update your call sign in the appropriate field
- Complete the remaining location fields
- Click on Apply

Next, complete the following fields by selecting the corresponding settings (only select the digital modes you plan on using):

Control Software

Setting	Value
Controller Software:	○DStarRepeater ⦿MMDVMHost (DV-Mega Minimum Firmware 3.07 Required)
Controller Mode:	⦿Simplex Node ○Duplex Repeater (or Half-Duplex on Hotspots)

Apply Changes

MMDVMHost Configuration

Setting	Value			
DMR Mode:	🔴	RF Hangtime: 20	Net Hangtime: 20
D-Star Mode:	🔴	RF Hangtime: 20	Net Hangtime: 20
YSF Mode:	⚪	RF Hangtime: 20	Net Hangtime: 20
P25 Mode:	⚪	RF Hangtime: 20	Net Hangtime: 20
NXDN Mode:	⚪	RF Hangtime: 20	Net Hangtime: 20
YSF2DMR:	⚪		
MMDVM Display Type:	Nextion ◊	Port: Modem ◊	Nextion Layout: G4KLX ◊

Apply Changes

General Configuration

Setting	Value
Hostname:	pi-star Do not add suffixes such as .local
Node Callsign:	Your Call Sign
CCS7/DMR ID:	Your DMR ID
Radio Frequency:	431.075.000 MHz
Latitude:	50.000 degrees (positive value for North, negative for South)
Longitude:	0.000 degrees (positive value for East, negative for West)
Town:	City, State
Country:	USA
URL:	http://www.qrz.com/db/l Your Call Sign ○Auto ⦿Manual
Radio/Modem Type:	STM32-DVM / MMDVM_HS - Raspberry Pi Hat (GPIO) ◊
Node Type:	○Private ⦿Public
System Time Zone:	America/Chicago ◊
Dashboard Language:	english_us ◊

Apply Changes

Step 3: configuring WiFi

- Scroll to the bottom of the configuration screen and select "Configure Wifi"

- Click add network and enter your WiFi settings
- Click "Save and Connect" when done
- Repeat as necessary if you would like to add more than one WiFi connection point
- Click on "Apply Changes" when complete
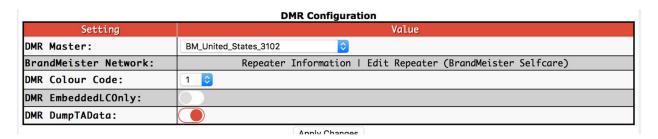- Wait for Dashboard to reboot

Step 4: Start using your DXMINI

- Disconnect your personal device Wifi from the Pi-Star network and return back to the Wifi connection you will be using your DXMINI on
- Unplug the DXMINI for 30 seconds and then plug back in
- Allow two minutes to reboot
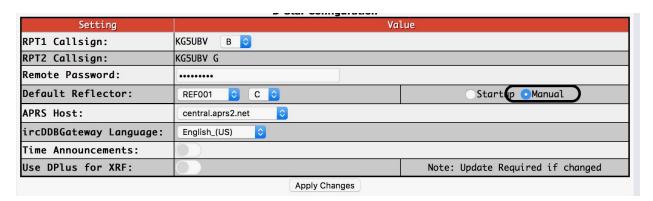- Congrats, you are on the air with your DXMINI!

Recommended Digital mode settings:

When using multiple digital modes, it is strongly encouraged to set all mode defaults to ***"None"*** to avoid the DXMINI from switching to an unwanted digital mode when you are using your device. For example, if you are actively monitoring or transmitting on DMR, you do not want to monitor D-Star as your DXMINI will switch to which ever digital mode is currently being received via the built-in modem. Remember to always send the disconnect code from your radio before switching and operating a different digital mode (i.e. tg4000 for DMR, "U" – unlink command for D-Star).

DMR:

DMR Configuration	
Setting	Value
DMR Master:	BM_United_States_3102
BrandMeister Network:	Repeater Information | Edit Repeater (BrandMeister Selfcare)
DMR Colour Code:	1
DMR EmbeddedLCOnly:	
DMR DumpTAData:	

Apply Changes

D-Star:

D-Star Configuration		
Setting	Value	
RPT1 Callsign:	KG5UBV B	
RPT2 Callsign:	KG5UBV G	
Remote Password:	••••••••	
Default Reflector:	REF001 C	Startup ⦿Manual
APRS Host:	central.aprs2.net	
ircDDBGateway Language:	English_(US)	
Time Announcements:		
Use DPlus for XRF:		Note: Update Required if changed

Apply Changes

Fusion:

Yaesu System Fusion Configuration	
Setting	**Value**
YSF Startup Host:	None
APRS Host:	central.aprs2.net

Apply Changes

P25:

P25 Configuration	
Setting	**Value**
P25 Startup Host:	None
P25 NAC:	293

Apply Changes