Nextion Kit Quick Start Guide

The Nextion Kit has all of the capabilities of the ZUMspot all packaged up in a nice 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 3B
- The firmware is pre-loaded and is easily upgraded via software.
- Built-in 2.4" Nextion display
- 2.4A power supply
- 1 Year Warranty
- Open source firmware (MMDVM) and board design
- Open source 3D printable case available

The ZUMspot RPi Nextion 2.4 Kit Package Includes:

- ZUMspot Pi UHF Board
- Raspberry Pi 3B
- C4 Lab case
- 2.4A power supply
- 2.4" 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 3B
- Install the antenna into the RF connector. There is an opening on the top which is where the antenna goes.

Here is a completely setup Nextion Kit



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:

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 or http://192.168.50.1 (for Windows, Linux and Android devices) http://pi-star.local or http://192.168.50.1 (for OS X and iOS devices)

• You should see this page.

*** WILL BUT		NO 100 100	and the second second	A REAL PROPERTY OF
	Pid	Star Digital Voice Dashboard for H	JABC	
		No. Hode Defined		

- 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)"

ande tallinger.		(3.	0
and throught.	what .				
talis frequency:	ADDINES BOT OF MIL				_
Latitude:	1000 Migrand	Genitive Selar	Ter Nerth, 144	vice for Switty	
Long(tiale)	-000 (Hg/HHS	(essimilar value	Yar Bash, regat	ive for man)	
Date: C	1mm 1.003198				
iouttry (Santy				
	Party (Server And Second one address	the'	ALC: NOT	Adu Otimul	
todia/Modes Type:	-				
kode Type:	OFFirete Rubits		1150		
System Time Zone:	Anaritation Argent	9			
Inshinard Language:	anglid at				
		nal Configuratio			
antegard Access:	OPTIMIS PARILE		105		
Inchestories Konster	OPVIALE PARTY				
SSH Access	Ofrivets Public				_
kuto AP;	OON OFF	1.00	utel. Return Rear	treat LF changed	
ene.	QUA CTT	Contractor in the			
Tairest Blass (STLAssarter)	Dempio White				
	Winstein Dr.		annesse.		
Teterlace Name : when Interlace Status : South	Western Dr.	Connector AP Noc A	d To r	2010 station	
Televisce Name : wierD Interface Signa : Scienting	Western Dr.	Concentre AP Noc A	d To r ddress i	zeloskatos	
Telenfore Name - wheel Destroya Status - Source DF Address - Status - Source Status - Status - Source Status - Source -	Western Dr.	Connector AP Noc A	d To r ddress i	2nhomaton	
Telentizer Neme i wiede Delentizer Status : Sonete 19 Address : Salars : Salarst Mais : Mais Address : Bit 374al: 13 Ancohvel Pickets : Ancohvel Pickets : Ancohvel Pickets : Ancohvel Pickets :	A Defension of the second seco	Concentre AP Noc A	<u>1711.</u> ,	2 mba man	
Televiser Name I veter Televiser Stand Veter IP Address : Subart Nami I Nai Address : Na 2 You I Aucoreal System I Aucor	A Defense of the second s	Consention AP Marc A Ministra 1 Report Lo	and the second sec	2040-0480-0	
Antoning Name (Antonin State) Calendres (State) (State) P. Advast (State) P. Advast (State) (State) P. Advast (State) (State) State) (State) (State) (State) State) (State) (State) (State) State) (State) (State) (State) (State) State) (State) (St	Brownia Dr Darwenne Statue Statue Driversiere Feloresiere Barrot	Consention AP Marc A Minister I Righter La Righter La R	171., 	2rlpotettar	
Antoning Name (Antonin State) Calendres (State) (State) P. Advast (State) P. Advast (State) (State) P. Advast (State) (State) State) (State) (State) (State) State) (State) (State) (State) State) (State) (State) (State) (State) State) (State) (St	Environment Contraction Contraction Contraction Contraction Research Resear	Consention AP Note: A Report to Report to Access Process Config	of Top - difference (and) and (mental men		

max Celluige:		0
	server .	
Fadlo Frequency:	ADDRESS OF TAXABLE PARTY.	
Letture	10.00 impress Constitive willing for North, segetime for South?	-
Longttude:	400 shurses (passive solve for fast, regarive for Bust)	
fami	Ren, 0004THe	
Country	Causty	
LULI	The lower residence is the set	0
RadLo/Reden Type:		
Made Type:	Divisits Public	
Sextem line Zone:	Americal Jugeni	
Destinard Language	anglet on	
	Auro Doman Formal Configuration	
Destroyerd Access:	Officer Pacing	
Irchildetenes Amota:	OFFINETS PARTIE	
ISS Access:	OFFINETS Public	
Auto APT	Orn Dff Hete: Report Reprired 17 charged	
	One Def	
	. Aniy Dunye. Wirekas Configurytina Mittinicati (Executionation)	
Contraction of the local division of the loc	Winters Configuration	
	Winness Configuration	
	Winness Configuration	

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

			pi-star.ioce	8	(G)	 ①
Node Callsig	n:	MIABC				
Radio Freque	ncy:	438,800,000	MHz			
Latitude:		50.00	degrees (positive)	value for I	Worth, negative for South)	
Longitude:		-3:00	degrees (positive	value for 1	ast, negative for West)	
Town:		Tewn, LOC4TOR	1		-	
Country:		Country	11			
URLI		http://www.mwi	0mwz.co.uk/pi-star/	1	Auto OManual	l.
Rodio/Modem	Type:				0	:
Node Type:		OPrivate	Public			
System Time a	Zone:	America/Los_A	ngeles 😑			
Dashboard La	nguage:	english_us	0			
			Apply Change	5		
1.92	51000		Firewall Configu		1914 - 1	
Dashboard Acc		OPrivate	Public	Val	10	
ircDD8Gateway	C 2 2 1 1 2		Public			
SSH Access:			Public			
Auto AP:		On Off		Note:	Reboot Required if changed	
UPNP:		OOn Off				
WiFi Info			Apply Change			
Network 0[De	INTE INTE INTE INTE INTE INTE INTE INTE		and the second sec			
Network 0[De	PSK HILL AND		Wireless Configs			
Network 0(Del S Scattfor Networks Networks found Connect	ISID NETGEAR PSK NS (10 Secs) /		Wireless Configs	Signol	Security	
Network 0(Del S Scattfor Networks Networks found Connect	PSK HILL AND	Add Natwork	Wireless Configs	Signol	Security; WPA2-PSK (TKIP) with WPS	
Network D(Del S Scar for Network Networks Tournd Connect Select AT	ISID NETGEAR PSK NS (10 Secs) /	Add Natwork	Wireless Configs	Signol -29 dBm		
Network 0 Del Scar for Networ Networks found Connect Select At Select Hu	SID <u>NETGEAR</u> PSK	Add Natwork	Wireless Configs we (and connect) Chonnel 2.4GHz Ch11	Signol -29 dBm -45 dBm	WPA2-PSK (TKIP) with WPS	
Network 0 Del Scar for Network Networks foord Connect Select At Select NE	SID <u>NETGEAR</u> PSK	Add Natwork	Wireless Configs ve (and connect) Channel 2.46Hz Ch11 2.46Hz Ch3	Signol -29 dBm -45 dBm	WPAZ-PSK (TKIP) with WPS WPAZ-PSK (AES)	
Network 0 Del S Scenter Network Networks found Connect Select AT Select NE Select AT	SID NETGEAR PSK	Add Natwork	Wireless Configs ve (and connect) Channel 2,4GHz Ch11 2,4GHz Ch1 2,4GHz Ch11	Signol -29 dBn -45 dBn -46 dBn	WPA2-PSK (TKIP) with WPS WPA2-PSK (AES) WPA2-PSK (TKIP) with WPS	
Network 0 Del Scatt for Network Networks found Connect Beliect AT Select AT Select AT Select PT	IT I	Add Natwork	Wireless Configs we (and connect) Channel Li 2,4GHz Ch11 2,4GHz Ch11 2,4GHz Ch11 2,4GHz Ch11	Signol: -29 dBn -45 dBn -67 dBn	WPAZ-PSK (TKIP) with WPS WPAZ-PSK (AES) WPAZ-PSK (TKIP) with WPS WPAZ-PSK (TKIP) with WPS MPAZ-PSK (AES)	
Network 0 Del S Scat for Networ Networks found Connect Select AT Select Hu Select AT Select PI Select PI	IT CONTRACTOR CONTRACT	Add Natwork	Wireless Configs we (and connect) Channel L: 2.4GHz Ch11 2.4GHz Ch11 2.4GHz Ch11 2.4GHz Ch11 2.4GHz Ch11	-29 dBn -45 dBn -67 dBn -83 dBn	WPAZ-PSK (TKIP) with WPS WPAZ-PSK (AES) WPAZ-PSK (TKIP) with WPS WPAZ-PSK (TKIP) with WPS MPAZ-PSK (AES)	
Network 0 Del Scar for Network Networks found Connect Select AT Select Hu Select AT Select PI Select PI Select W	INTO WEEKI (1) WETGEAR PSK (1) WEEKI (1) INTO WEEKI	Add Natwork	Wireless Configs we (and connect) Channel L 2.4GHz Ch11 2.4GHz Ch11 2.4GHz Ch11 2.4GHz Ch11 2.4GHz Ch1 2.4GHz Ch1 2.4GHz Ch1	Signol -29 dBn -45 dBn -46 dBn -67 dBn -83 dBn -85 dBn	WPAZ-PSK (TKIP) with WPS WPAZ-PSK (AES) WPAZ-PSK (TKIP) with WPS WPAZ-PSK (TKIP) with WPS MPAZ-PSK (AES) WPAZ-PSK (AES)	
Network 0 Del Scar for Network Networks found Connect Select AT Select NE Select PI Select PI Select W	ITGTY1660 AMD TO GOOD TO	Add Natwork	Wireless Configs	Signol -29 dBn -45 dBn -46 dBn -67 dBn -83 dBn -85 dBn -85 dBn -85 dBn	WPA2-PSK (TKIP) with WPS WPA2-PSK (AES) WPA2-PSK (TKIP) with WPS WPA2-PSK (TKIP) with WPS MPA2-PSK (AES) MPA2-PSK (AES) WPA2-PSK (TKIP) with WPS	
Network 0 Del Scar for Network Networks found Connect Bellect AT Select AT Select AT Select PT Select PT Select WM Select bb Select WG	ITGLAR32 TTGTYJ660 Ampty TGLAR32 TTMNJCI22 IXEL IXEL_GUEST Wireless Ditest II	Add hetwork Ge	Wireless Configs we (and connect) Channel 2,4GHz Ch11 2,4GHz Ch11 2,4GHz Ch11 2,4GHz Ch11 2,4GHz Ch1 2,4GHz Ch1 2,4GHz Ch1 2,4GHz Ch1 2,4GHz Ch6 2,4GHz Ch6 2,4GH	Signol: -29 dBn -45 dBn -46 dBn -67 dBn -83 dBn -85 dBn -85 dBn -88 dBn -88 dBn	WPA2-PSK (TKIP) with WPS WPA2-PSK (AES) WPA2-PSK (TKIP) with WPS MPA2-PSK (TKIP) with WPS MPA2-PSK (AES) MPA2-PSK (AES) WPA2-PSK (AES) WPA2-PSK (AES) WPA2-PSK (TKIP) with WPS	2291
Network 0 Del Scar for Network Networks found Connect Select AT Select Hu Select PI Select PI Select PI Select Bb Select Bb Select 01	ITGLAR32 TTGTYJ660 Ampty TGLAR32 TTMNJCI22 IXEL IXEL_GUEST Wireless Ditest II	Add Natwork	Wireless Configs we (and connect) Channel 2.4GHz Ch1	Signol: -29 dBn -45 dBn -46 dBn -67 dBn -83 dBn -85 dBn -85 dBn -88 dBn -88 dBn	WPA2-PSK (TKIP) with WPS WPA2-PSK (AES) WPA2-PSK (TKIP) with WPS MPA2-PSK (TKIP) with WPS MPA2-PSK (AES) WPA2-PSK (AES) WPA2-PSK (AES) WPA2-PSK (AES)	259]

- Reboot your Nextion Kit
- Now you can continue on the "**Configuration**" section below.

Ethernet:

• Connect Ethernet cable to the Nextion Kit and then turn on the power.



- After 3 minutes, go to your web browser (Chrome, Firefox, etc.) and connect to the website: <u>http://pi-star</u> (for Windows, Linux and Android devices <u>http://pi-star.local</u> (for OS X and iOS devices)
- You should see this page.

*** NO. 10	1410 · · · ·	
	Pi-Star Digital Voice Dashboard for M1ABC	
	No Node Defined I and there such there is not a superstant and most is intellection of the such that the superstand of the superstand	
	And a second sec	

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

Configuration:

 Change the Node Callsign to your own, set the "Radio/Modem Type" to "ZUMspot - Raspberry Pi Hat (GPIO)", set the "System Time Zone" to your timezone, and set the "Dashboard Language" to the language you prefer.

	Show Distant	Talan Tan		
10	-Star Digital		and the second of the second	
	- upon	werk Admin Expert	Power I Linders Renner	Reduce I Pattory to
	Sateway I	andware Information		-
p1-star 4.9	25-x7+ PL 8 Mak	I B CIGR) - Stadium	0.49 / 0.18 / 0.8	AT BILL A TURN
and the second second	Ca	struit Software		
Controller Suftware:	Disriepoter OMU	Micot (Di-Mega Mirris	un Firmore 3.87 Real	(red)
Contraller Mode:	Often Hode Deple			
		Apply Charges		
	Gane	al Configuration		
A DECK		101		
Rostnee:	pilote met a	en daartiken nich en	lecol.	
Mode Calisigni	WATING .			
Radio Frequency	AT A REPORT OF ANY			
Latitude:	10.00 Regrans	positive value for 1	methy regative for Se	UTFO :: CFTM
Longitude:	100 2497995	postrice value for	list, segative for Mex	1)
Toers	Taxy, L3C4Tall	1.1		
Country:	tientry			
AFLI	The party of the second second	etas/	Arts 0	Nexal
Radia/Nadem Type:	Tuesday I Analogy 41 and	1994	B	
Hode Type:	Ministra Autor			
System Time Zone:	Americal cs. Angelse			
Dechloserel Language:	Hard and Barry	_		
		April Charges		
	titte	all Configuration		
Deshboard Access:	Ofrivate Aubite -			
Irc000Getemey Resets:	Ofrisate Rublic			
SSH Access:	Ofrivate Aubite	2		
Aarter AP:	001 011	Hots:	National Responsed LF con	ingent
MM:	0 DH 0/f			
		Aprile Chargest		
	Wirei	ess Configuration		
COLUMN ROOT WITCHING	Contaction			
	Witnesses Int	Construction and Distant		
Interface Name : wiavil	a Enfermation	Connected To		
Interface Status / Deterfac	8 15 devert	AP Max Mahlves	•1	

- Click "Apply Changes" when you are done
- When everything reloads, you will need to re-set the "Radio/Modem Type" to "ZUMspot -Raspberry Pi Hat (GPIO)" and click "Apply Changes" again.

Configuration (example to enable D-Star):

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

		192.108.1.34		¢	
9				****	-3.607 Berlinet Diffili
P	i-Star I	Digital Voice - C	on	iguration	
		the second second second second second		Service Providence	
		Deshboard Admin Exp	Bear 1 h	ower Update Backup/R	lestore Fectory Resi
		Gateway Hardware Inform	ation		
and a second and a s	Sernel 9.35-v7+	Plotform Pi 3 Model 8 (198) - Sto	diue	0.17 / 0.13 / 0.08	CPU Terry
PL 2500	21.22. TT F	The second s	o com	10.47 F 0.44 F 0.00	
Setting		Control Software	Value		
Controller Software:	OStarRe	peater OMMCVMHost (DV-Nega N			ed)
Controller Mode:	QSimplex	Node Duples Repeater (or H	Nalf-D	uplex on Notspots)	
		Apply Changes			
		MMDVMHost Configurati	00		
Setting			Vetu		
DMR Mode:	0	RF Hangtime:	20	Net Hangtime: 20	
D-Star Mode:		RF Hungtime:	20	Net Hongtime: 20	
TSF Mode:	10.1	RF Hangtime:	20	Net Hangtime: 20	
P25 Hode:	0	RF Hangtime:	20	Net Hangtime: 20	
NXDN Mode:	10	RF Hangtime:	20	Net Hangtime: 20	
YSF2DMR:	0.0				
YSF2NXDN:	0.				
TSF2P25:	- (92) w	v			
OMR2YSF:	0.0	Uses	7 pref	ix on DMRGateway	
OMR2NXDN:		1111124	0.000000	ix on DHRGateway	
POCSAG:	9			aging Features	
MHDVM Display Type:	Nexton	Port: Modern Nex	tion !	Layout: ON7LOS L3	8
		Apply Changes			
		General Configuration			
Setting			Velu		
Hostname:	pi-star	Do not add suffixes such	05 .	local	
Node Callsign:	KIEZUM				
Rodio Frequency:	434.500.00	0 MHz			
Latitude:	60.00	degrees (positive value	for N	orth, negative for Sou	ch)
Longitude:	-3.00	degrees (positive value	for E	ast, negative for West)
Town:	Town, 1,0C4	TOR			
Country:	Country				
URL:	http://www.	mwCmwz.co.uk/pi-star/		Auto OM	lanual
Radio/Modem Type:	ZumSpot -	Ralpherry Pi Hat (GPIQ)	_	8	
Node Type:	OPrivate	Public			
System Time Zone:	America	ss,Angeles 📴			
Dashboard Language:	english, us	12			

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. <u>https://amateurradionotes.com/images/1-Playing_with_Pi-Star.pdf</u>

Support:

MMDVM Yahoo group: https://groups.yahoo.com/neo/groups/mmdvm/conversations/messages

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/