

# ***Upgrade manual***

## ***Radio Hotspot upgrade instructions***



***The Swiss army knife for Digital Voice***

**DVMEGA Cast**

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## **General**

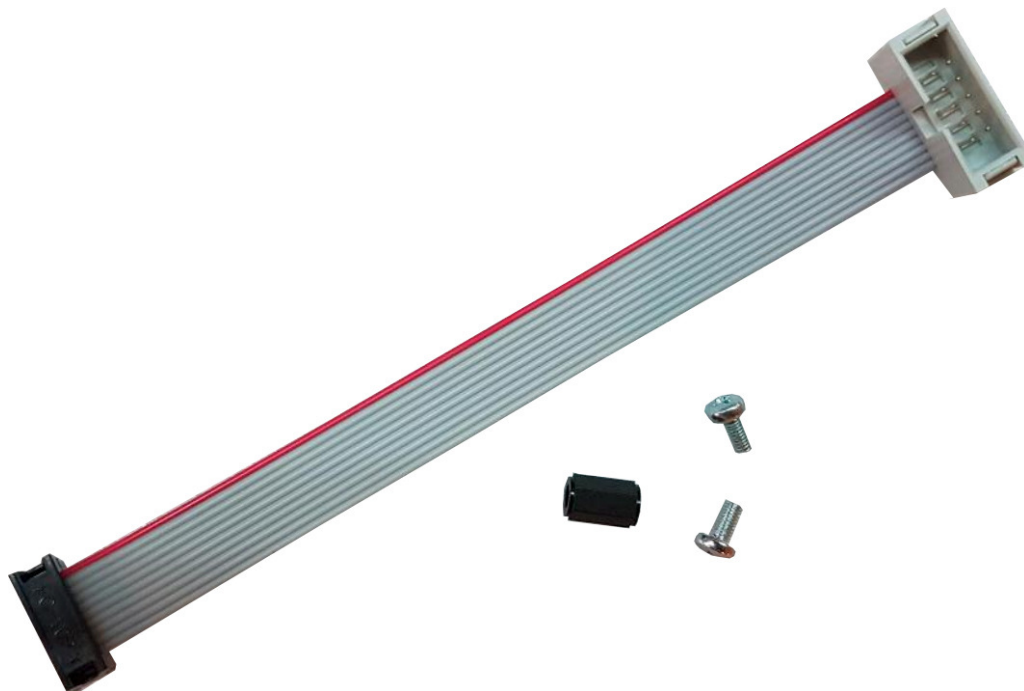
The DVMEGA Cast is equipped with an option connector to which a Radio Hotspot can be connected. This manual explains you how this option is placed and configured.

Read the user manual completely and carefully before use. The user manual is part of the product and contains important information for correct use.

Keep this user manual. The user manual must be available for uncertainties and passing the product.

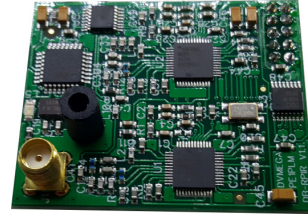
The upgrade kit contains the next parts :

- Flatcable
- M3 X 10 Spacer
- 2 pcs screw M3 X 6



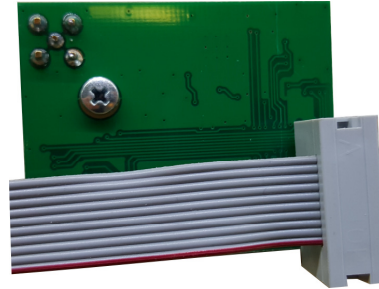
## Preparation

Mount spacer on Radio board.

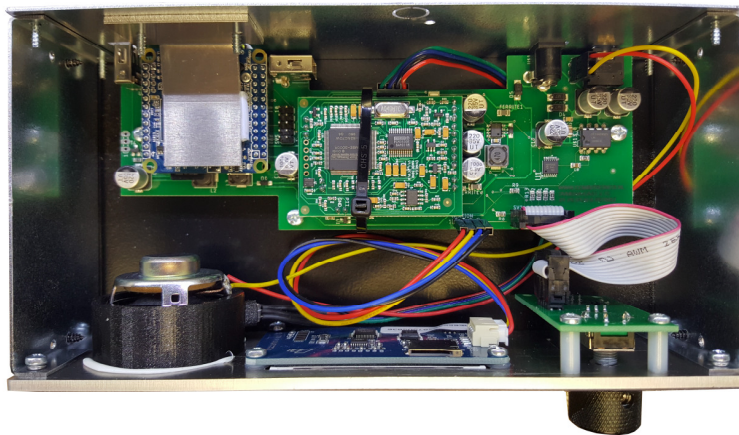


Connect ribbon cable to Radio board.

Attention ! Orientation of ribbon cable. Red wire must be towards the side of the board.



Remove the top cover, remove 2 screws on each side of the device.



Remove knock out on back of the device.



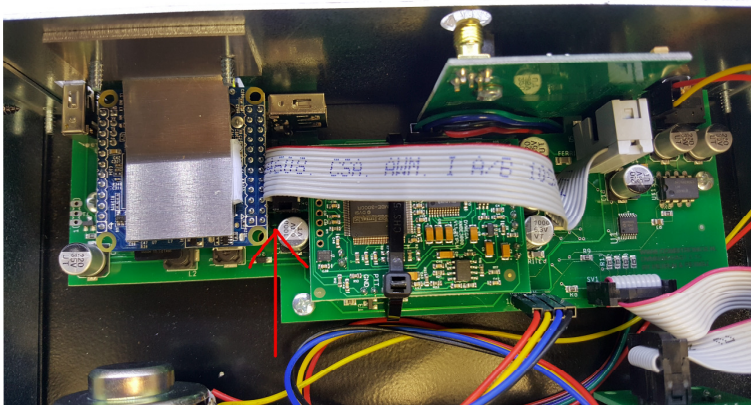
Preparation

Mount Radio board in the device.



Place ribbon cable on option connector as shown on next photo.

**Attention ! Red wire must be towards the back of the device.**



Now you can replace the top cover.



## Configuration

The configuration is easy accessible with a standard browser. Just enter "pi-star" in your URL bar.

the next screen will be shown.

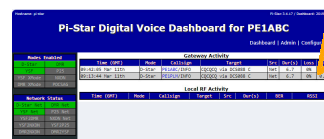
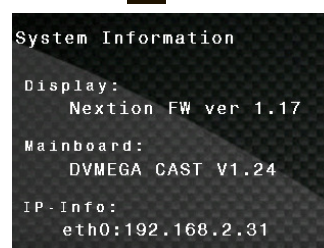
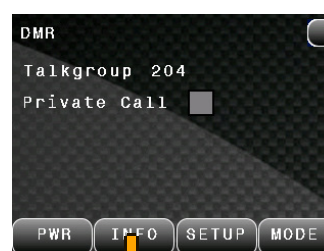
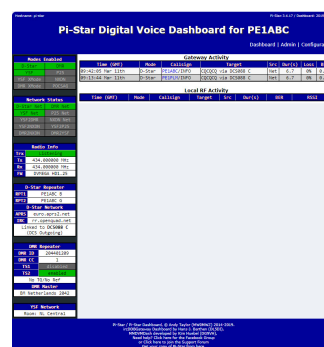
It is possible that the hostname can not be resolved in your network. Then you have to go via the IP address.

You can find the assigned IP address on the INFO screen on your DVMEGA Cast.

Press INFO to show IP Info.

Now enter the shown IP (192.168.2.31 as an example) in your URL bar.

Click Configuration to go to the Configuration page.



Pi-Star:3.4.17 / Dashboard: 20190205

## Pi-Star Digital Voice - Configuration

[Dashboard](#) | [Admin](#) | [Expert](#) | [Power](#) | [Update](#) | [Backup/Restore](#) | [Factory Reset](#)

Gateway Hardware Information				
Hostname	Kernel	Platform	CPU Load	CPU Temp
pi-star	3.4.113-sun8i	sun8i based Pi Clone	1.77 / 0.94 / 0.36	37°C / 98.6°F

The Configuration page is divided in configuration blocks per function. Scroll down to General Configuration.

Setting		Value
Hostname:	<span style="color: red;">■</span> pi-star	Do not add suffixes such as .local
Node Callsign:	<span style="color: green;">■</span> PE1ABC	
CCS7/DMR ID:	<span style="color: green;">■</span> 204401209	
Radio Frequency:	<span style="color: blue;">■</span> <span style="color: green;">■</span> 434.000.000	MHz
Latitude:	<span style="color: green;">■</span> 50.00	degrees (positive value for North, negative for South)
Longitude:	<span style="color: green;">■</span> -3.00	degrees (positive value for East, negative for West)
Town:	<span style="color: green;">■</span> Town, LOC4TOR	
Country:	<span style="color: green;">■</span> Country	
URL:	<span style="color: green;">■</span> http://www.mw0mwz.co.uk/pi-star/	<span style="color: green;">■</span> Auto <span style="color: grey;">■</span> Manual
Radio/Modem Type:	<span style="color: blue;">■</span> DV-Mega Cast Base Radio (Main Unit)	
Node Type:	<span style="color: red;">■</span> <input checked="" type="radio"/> Private <input type="radio"/> Public	
System Time Zone:	<span style="color: green;">■</span> Europe/London	
Dashboard Language:	<span style="color: green;">■</span> english_uk	

Settings marked with a Blue dot are important for this upgrade.

Radio Frequency : Set desired frequency

The Radio Hotspot Mode and the standard DVMEGA Cast Mode cannot be active at the same time. So you operate the DVMEGA Cast or activate the Radio Hotspot function.

If you activate Radio Hotspot Mode :

Radio/Modem Type : select DV-Mega Cast Hotspot - Dual Band or DV-Mega Cast Hotspot - Single Band (depends on your Radio Board). Click Apply Changes.

Now the DVMEGA Cast Mode is disabled and the Radio Hotspot function Enabled.

**Attention ! For D-Star, be sure that RPT1 and RPT2 setting are matching your D-Star radio.**

General Configuration		
Setting	Value	
Hostname:	<input type="text" value="pi-star"/> Do not add suffixes such as .local	
Node Callsign:	<input type="text" value="PE1ABC"/>	
CCS7/DMR ID:	<input type="text" value="204401209"/>	
Radio Frequency:	<input type="text" value="434.000.000"/> MHz	
Latitude:	<input type="text" value="50.00"/> degrees (positive value for North, negative for South)	
Longitude:	<input type="text" value="-3.00"/> degrees (positive value for East, negative for West)	
Town:	<input type="text" value="Town, LOC4TOR"/>	
Country:	<input type="text" value="Country"/>	
URL:	<input type="text" value="http://www.mw0mwz.co.uk/pi-star/"/> <input type="radio"/> Auto <input checked="" type="radio"/> Manual	
Radio/Modem Type:	<input checked="" type="radio"/> DV-Mega Cast Hotspot - Dual Band (2m/70cm)	
Node Type:	<input checked="" type="radio"/> Private <input type="radio"/> Public	
System Time Zone:	<input type="text" value="Europe/London"/>	
Dashboard Language:	<input type="text" value="english_uk"/>	

Apply Changes

If you like to revert to DVMEGA Cast Mode just change Radio/Modem Type to : DV-Mega Cast Base Radio (Main Unit) and click Apply Changes.

General Configuration		
Setting	Value	
Hostname:	<input type="text" value="pi-star"/> Do not add suffixes such as .local	
Node Callsign:	<input type="text" value="PE1ABC"/>	
CCS7/DMR ID:	<input type="text" value="204401209"/>	
Radio Frequency:	<input type="text" value="434.000.000"/> MHz	
Latitude:	<input type="text" value="50.00"/> degrees (positive value for North, negative for South)	
Longitude:	<input type="text" value="-3.00"/> degrees (positive value for East, negative for West)	
Town:	<input type="text" value="Town, LOC4TOR"/>	
Country:	<input type="text" value="Country"/>	
URL:	<input type="text" value="http://www.mw0mwz.co.uk/pi-star/"/> <input type="radio"/> Auto <input checked="" type="radio"/> Manual	
Radio/Modem Type:	<input checked="" type="radio"/> DV-Mega Cast Base Radio (Main Unit)	
Node Type:	<input checked="" type="radio"/> Private <input type="radio"/> Public	
System Time Zone:	<input type="text" value="Europe/London"/>	
Dashboard Language:	<input type="text" value="english_uk"/>	

Apply Changes