

DMR and DMR2YSF on the Brandmeister system.

This will be a 4-part series explaining what you need to get onto DMR and DMR2YSF on the Brandmeister network.

Part 1: DMR equipment, registration (DMR node ID, Brandmeister registration) and software requirements.

Part 2: DMR Hotspot Setup.

Part 3: DMR radio transceiver configuration.

Part 4: DMR2YSF setup and how to use the cross mode DMR2YSF (DMR to C4FM).

What is DMR and DMR2YSF you ask, well DMR is a digital voice mode used by amateur radio operators and is known as **D**igital **M**obile **R**adio, DMR2YSF takes the DMR to the next level with cross-mode capability from **D**igital **M**obile **R**adio to **Y**aesu **F**usion (also known as C4FM).

Why bother with cross mode you ask, well, WHY NOT, it's a very cost-effective way of getting on to two digital modes for the price of one.

OK, before we get into it, this series is written by a Ham for Hams and is my interpretation of the DMR, Yaesu and Brandmeister network systems, that works for me. Use this as a guide to help you on your DMR and YSF journey.

REMEMBER: *Before changing any software settings make a backup copy of what is already on your DMR radio and Hot Spot.*

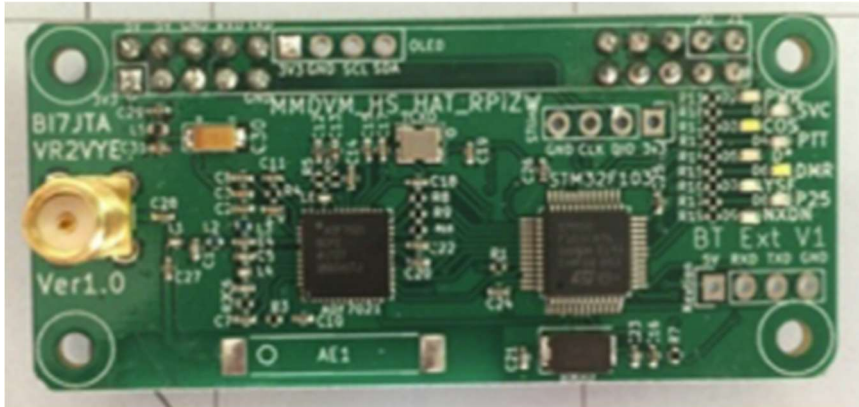
Part 1.

What you will need:

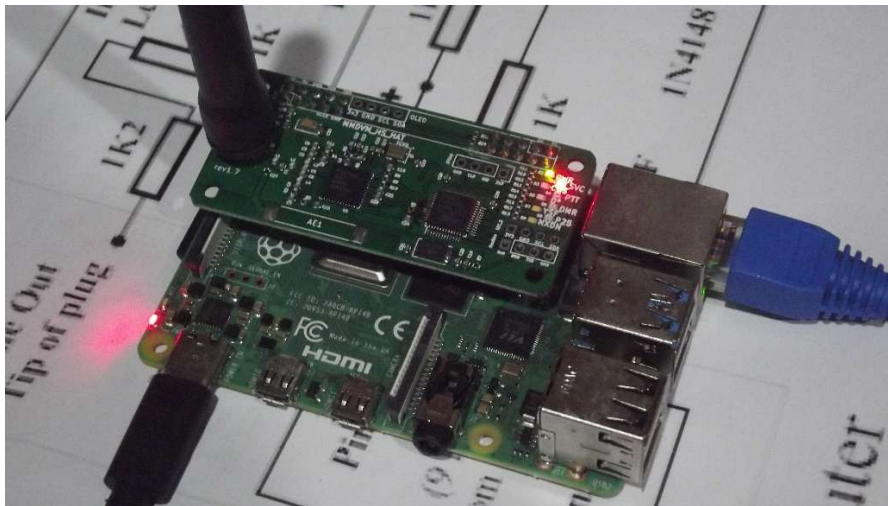
- DMR Hotspot, preferably running on a Raspberry Pi-3B or later.
- DMR transceiver.
- DMR Id: from radioid.net. Link <https://radioid.net>
- Brandmeister registration. Link <https://brandmeister.network>
- Software. Link <https://w0chp.radio/wpsd/>

DMR Hotspot.

You can purchase a DMR Hotspot either locally in Australia or on eBay, search DMR Hotspot on your favourite search engine on the web and you will get quite a few choices.



Above is a MMDVM_HS_HAT that will sit on top of the Raspberry Pi-3B GPIO pins. I would suggest this as a minimum configuration if you were going to use DMR2YSF.



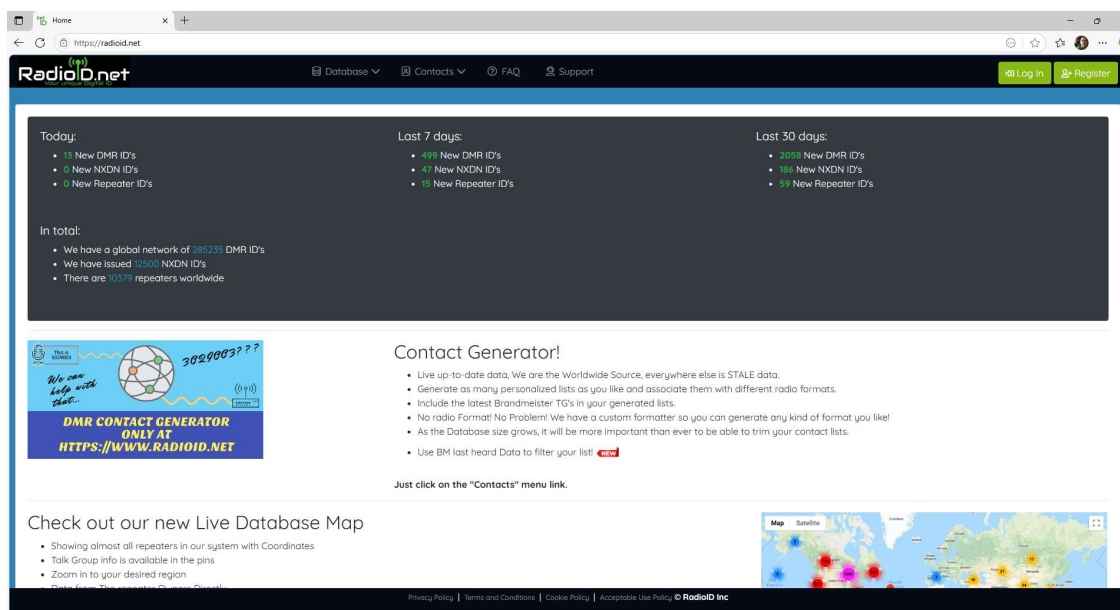
For example, my MMDVM_HS-HAT running on a Raspberry Pi-4.
YES, best to run the hotspot on a wired connection.



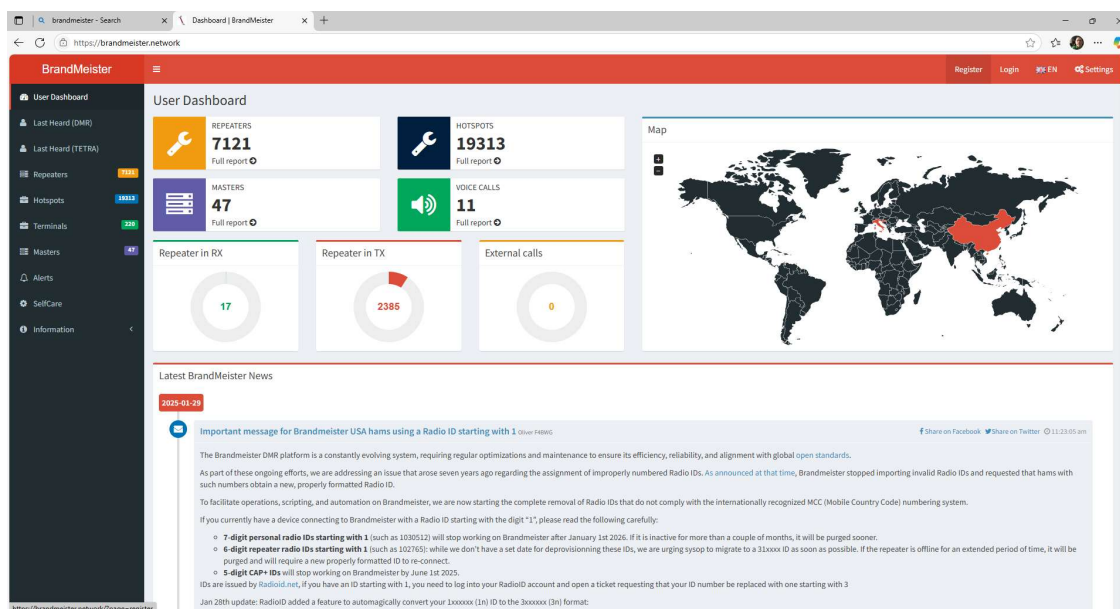
TYT uV380 HH

DMR transceiver. There are a multitude of DMR transceivers available I would suggest a handheld type for starters as these can be quite inexpensive. I have several types, but I will be describing this system using my TYT uV380 Handheld Transceiver as an example for the COE plug settings.

DMRid. Go and register your callsign for a DMR ID on RadioID.net web site, click on the above link, the page below is what you will see, click on the top right green button named Register and follow the prompts and request a DMR Id number.



Brandmeister. Next go and register with the Brandmeister DMR network following the above link, the page below is what you will see, again click on the top right button named register and follow the prompts, adding your callsign, your new DMR Id number and create a security password in self-care, the security password is different to your login password and is required when filling out the WPSD software settings.



Note: RadioID.net and Brandmeister.network may ask you for a copy of your HAM licence, for proof of your callsign, just pdf a copy to them if that is the case.

Software. I will be showing you how to setup this system using WPSD software, so I suggest you use the same to make it easier to follow through this process, follow the link above.

Screenshots of the software download and image write function are below.

Note: You will need to unzip the downloaded file, this will extract the image file, take note of where the file is located on your C:/, this is the image file you need to burn onto you micro sd card.

