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Homebrew/MMDVM

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G4KLX MMDVM



Homebrew MMDVM

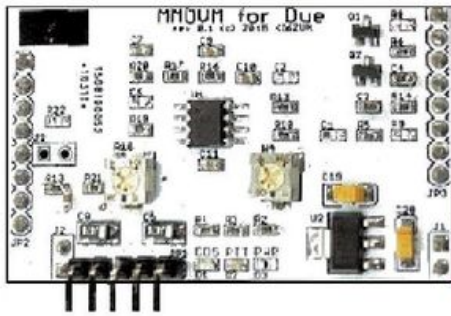
Vendor	Homebrew		
Model	MMDVM		
Firmware	unspecified		
Website	https://github.com/g4klx/		

Modes

DMR	✓	D-Star	✓
Tetra	✗	P25	✓

Terminal support

Group call	✓	Voice call	✓
SMS	✓	IP	✓
GPS	✓	ARS/RRS	✓



DMR Protocol support

Talker Alias ✓ In call GPS ✓



Blog: <http://www.mmdvm.com/>

Group: <https://groups.yahoo.com/groups/mmdvm/>

Sources: <https://github.com/g4klx/>

MMDVM Shields

- SP8NTH – http://www.sp8nth.ampr.org/print.php?type=N&item_id=126
- KI6ZUM – <https://www.google.fr/search?q=KI6ZUM&client=firefox-b&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKewj3lZXyw-PTAhXIPRoKHWDEAYYQsAQIMQ&biw=1440&bih=742#imgsrc=BWl2Dg00svvNqM>
- PAPA System
- IZ5IGB Low-Cost ZUM Compatible – <http://dmr.grupporadiofirenze.net>
- DSTAR.SU & RADIOCULT.RU group – https://drive.google.com/file/d/0B_UNZTdPtyZUUjN2d2lIV0RtNTQ/view
- INADVM – <http://inadvm.com/inadvm/inadvm-rev2-index.html>
- STM32_DVM – <http://www.repeater-builder.com/products/stm32-dvm.html>
- Images For Raspberry Pi – <http://www.dmr-utah.net/support/mmdvm/images/>
- Pi-Star – <http://www.mw0mwz.co.uk/pi-star/>

MMDVM Notice de Réglages et de Configuration

Configurer un MMDVM de A à Z:

<https://www.dropbox.com/s/k8761h40czy5x1s/Configurer%20un%20MMDVM%20de%20A%20%C3%A0%20Z%20.pdf?dl=0>

Configuration

```
1. [General]
2. Callsign=R1ABC
3. Timeout=180
4. Duplex=1
5. #ModeHang=10
6. RFModeHang=10
7. NetModeHang=4
8. Display=Nextion
9. Daemon=0
10.
11. [Info]
12. RXFrequency=434000000
13. TXFrequency=439000000
14. Power=1
15. Latitude=51.0
16. Longitude=39.0
17. Height=10 (par rapport au sol)
18. Location=JN25FF
19. Description=Multi-Mode Repeater
20. URL=www.dstar.su
21.
22. [Log]
23. # Logging levels, 0=No logging
24. DisplayLevel=1
25. FileLevel=1
26. FilePath=.
27. FileRoot=MMDVM
```

```

28.
29. [CW Id]
30. Enable=1
31. Time=10
32.
33. [DMR Id Lookup]
34. File=DMRIds.dat
35. Time=24
36.
37. [DMR]
38. Enable=1
39. Id=250199
40. ColorCode=1
41.
42. [DMR Network]
43. Enable=1
44. Address=master.dstar.su
45. Port=62031
46. Password=passw0rd
47. Debug=1

```

Dashboard for MMDVMHost

- Source code <https://github.com/dg9vh/MMDVMHost-Dashboard>
- Examples on the net:
 - <http://cq0dfo.dyndns.org/>
 - <http://mmdvm.ddns.net:8081/>
 - <http://250203.radiocult.ru:8082/>
 - <http://f1zkr.dtdns.net/>

Recommend for Motorola radio

- Example and information on Radio Motorola
<http://www.batlabs.com/>

Recommend radios for homebrew repeaters

Being tested on 

Unknown 

Supported 

Unsupported 

Known to work well for DStar, all radios should also work fine for DMR (otherwise please edit this list). The following radios have been approved to work as homebrew repeaters HF frontends:

Motorola			
Model	RX	TX	Notes
CDM750 / 1250 / 1550LS			Excellent TX & RX on all modes
CM140 / 160 / 340			EM200(CM140) Very low BER at Rx (SV4QXF) Tx works (SQ6POG)
EM400			-XE1HAX- TX / RX VHF good work with (SP8NTH) v0.04
GM1200			D-Star,DMR,C4FM,P25 – TX using PIN 24 ACC, RX only via PIN 5 of internal CS(Optional)connector [DISC OUT]! PIN 25 ACC NOT WORKING! OK2IT see #GM1200 DISC out
GM300/Maxtrac			N3FE
GM338			DMR & C4FM tested
GM340 / GM360 / GM380			
GM350 / GM950			PCB Mod. VHF RX TX work (SQ9MYX)

GM600	 TX UHF Work (SQ9MYX)
GM600 (reprogrammed to GM950)	  TX / RX UHF Work excellent on SR8UWD (SP8NTH)
GR1225	  N9KRG
M1225	  Receive causing unstable BER at Rx 5~10% (VE2RI)
MCS2000	  Unstable BER at Rx 1,2~5% (SV4QXF)
MSF5000	  X74CXB7106AT Works well for DMR; C4FM and Dstar not tested (YO2LLQ)
MTR2000	  Very well for DMR and DStar – C4FM not tested (IZ5IGB)
Pro 3100	  At least with 4 used radios I tested, Tx is center frequency is unstable.
Pro 5100	  Excellent TX & RX on all modes
R100 Repeater	  N1XBM
VRM650 (MCS2000)	  K0XM/W0NQX
VRM850 (MCS2000)	  N4IRS See VRM.zip in the Yahoo MMDVM files/Hardware area

Kenwood

Model	RX TX	Notes
TM-V71A/E		TX Has a timeout of Max 10 min and its impossible to change this.
TH-F7E	 	(CT1HDC) (IW9GRL – Good reception but unstable BER 0.3~5%)
TKR-750	 	VK4JLM Tested DSTAR and DMR, interfaced via rear DB25
TKR-830	 	N4IRS Good receive and transmit Tested DMR only Needs internal jumper Doc to follow
TKR-850	 	VK4JLM Tested DSTAR and DMR, interfaced via rear DB25
TK-8180	 	KC9FQT Works great, used for the WF1RES repeater, used with rear DB25 port
TM-D710	 	5B4AMD Does not work for DMR! PTT works but the handheld does not decode. RX does not work at all. DSTAR not yet tested.

YAESU

Model	RX TX	Notes
DR-1X	 	TX/RX audio is excellent, DMR/D-Star Tested (W2GLD)
FT-7900	 	Check/fine tune frequency for DMR use. TX will sag with temperature, set it 2–300 Hz above. (LA1PHA/LA1FTA)
FT-7800	 	Check/fine tune frequency for DMR use. TX will sag with temperature, set it 2–300 Hz above. (LA1PHA/LA1FTA)
FT-8800	 	
FT-100D		(CT1HDC)
FT-8900	 	(DMR CT1JIB)
FT-817	 	RX also looks to work (PD0ZRY)
FT-857	 	DMR/DSTAR works very well as DMO mode, BER stable around 1–2% (IW9HFS)
FTM100/DE	 	PinOut MMDVM-->MINIDIN 10PIN : 1=DIN6, 2=DIN4, 3=DIN2, 5=DIN1, 6=DIN3 – IZ0RIN
VXR-9000 UHF	 	DMR/DSTAR works very well as DMO mode, TXDelay=45, DMRDelay=27, TXInvert=1, RXInvert=0 (F4GIX)
FT-1907R/E	 	5B4AMD still under test for TX. RX works ok. Transceiver suffers from overheating due to lack of fan.

HYT

Model	RX TX	Notes
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TM-600U   RX work perfect. TX not work! (SQ9MYX)

Tait

Model	RX TX	Notes
T800 Series I	 	For TX bypass/cut off low pass filter stage in audio processor, provide new DC bias at half rail into buffer, inject data at buffer. For RX tap at or near discriminator. (VK2AMV) N4IRS See Tait Series II data modifications.zip in the Yahoo MMDVM files/Hardware area.
T800 Series II	 	Additional note by VK2AMV, Be very careful of DC leakage into buffer effecting Op Amp DC bias. I had huge problems with less than a Microamp of DC leakage through a faulty DC blocking capacitor before I discovered it. DMR works great with T800 SII.
T2020 Series II	 	DMR Works, More info (F4GIX)
Tm8100	 	DMR/DSTAR works well as DMO mode,DMR Delay 83 , More info (F4GIX)
Tm8250	 	DMR/DSTAR works well as DMO mode,DMR Delay 83 , More info (F4GIX)
TB7100	 	works with internal connections to RX/TX DF2ET, see https://www.florian-wolters.de/blog/2017/04/02/interfacing-tait-tb7100-and-mmdvm/

ICOM

Model	RX TX	Notes
IC E880	 	DMR/DSTAR works well as DMO mode (IK5XMK)
IC-V200TRE	 	DMR/DSTAR works, DMR Delay=40, More info (F4GIX)
IC-E2820	 	DMR works very well as DMO mode (SY1BRU)
IC-7000	 	DMR/D-Star works very well as DMO mode (SV6NOB) https://www.youtube.com/watch?v=NevkCvcxZY0

Harris

Model	RX TX	Notes
MASTR III	 	DMR works well (NF0T)

Maxon

Model	RX TX	Notes
SM-6450U	 	RX works great / TX unstable(YO6NAM)

Bridgecom

Model	RX TX	Notes
BCR-50x	 	All modes work well (KØXM)

GM1200 DISC out

Internal CS option connector of a Motorola GM1200 with discriminator on pin 5. Complete pinout at <http://www.batlabs.com/gm900.html>



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Has ars	true ±
Has dmr	true ±
Has dstar	true ±
Has gps	true ±
Has group	true ±
Has igps	true ±
Has ip	true ±
Has p25	true ±
Has sms	true ±
Has ta	true ±
Has tetra	false ±
Has voice	true ±
Image	MMDVM.jpg ±
Model	MMDVM ±
Vendor	Homebrew ±

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