

MMDVM UVIYN Hotspot Configuration

The MMDVM UVIYN hotspot is a completely assembled MMDVM Hotspot with self-contained rechargeable batteries. Supports DMR, YSF and P25. Charging requires a 2 Ampere DC input using the micro USB cable.

A few steps are needed to get you online and on the air with the hotspot.

WiFi Configuration

Note: the MMDVM Hotspot only operates on 2.4GHz Wifi

- 1. Turn on the hotspot by a short press on the power button (top left side), wait 2 minutes for it to boot up.
 - (Note: two short presses on the power button will turn Off the hotspot)
- 2. On your PC, open your WiFi networks and look for SSID "DMRP25YSF-xxx" and connect to it, no password needed
- 3. Point your web browser to 192.168.8.1, user= root and password= 12345678

O Menu O BG7IYN - LuCI X	
C BB ONT Secure 192.168.8.1/cgi-bin/luci	
🕞 在线生成 QR Code 🔮 gumble - GoDoc 🚺 Golang for LEDE –	🖞 🎦 Installing Go from s 🎧 talkiepi/README.m
BG7IYN	
Authorization Re Please enter your username and	equired
Username	root
Password	12345678
Login & Reset	
Powered by BG7IYN 2019	

Screenshot courtesy of manufacturer



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4. On the top menu bar click on Network and select WiFi

BG7IYN	Status -	System -	Network -	Logout	
0			Interfaces		
Status			Wifi		
System			DHCP and	DNS	
System			Hostnames		
Hostname			Static Rout	es	
Model			Firewall		128
Model			Diagnostics		
Firmware Vers	ion			OpenWrt Ch	aos Calmer 15.05.
Kernel Version				3.18.29	
Local Time				Tue Feb 122	23:10:24 2019
Uptime				0h 29m 45s	
Load Average				0.02, 0.05, 0	.10

5. Scan for WiFi networks then click on Join to select your 2.4GHz SSID WiFi

BG/III	N	Status - System	 Network - Logou 	t			AUTO REFRESH ON
radio0: I	Master	"DMRP25YSF-6CF/	A" radio0: Client "Upl	linkAp"			
Wirel	ess	Overview					
	Ge	eneric WEXT 802	2.11bg (radio0)			Scan	Add
	<i>1</i> 0%	SSID: DMRP25YSI BSSID: 0C:EF:AF:I	F-6CFA Mode: Master D2:6C:FA Encryption: -	🔞 Di	sable	Edit	Remove
	<u>්</u> ර 10%	SSID: UplinkAp M Wireless is disabled	ode: Client d or not associated	🥔 Er	nable	Edit	Remove
Asso	ciat	ed Station	s				
ss	ID	MAC-Address	IPv4-Address	Signal	Noise	RX Rate	TX Rate

6. Click on Join Network to select your WiFi (example here is SSID TZB)



7. Enter your WiFi password and **Submit**

Join Network: Settings

Repeater wireless configuration	Configurate wireless for Widora repeater interface.
WPA passphrase	 Ø Specify the secret encryption key here.
Name of the new network	wwan The allowed characters are: $A-Z$, $a-Z$, $0-9$ and
Create / Assign firewall-zone	O lan: lan: 🕎 👷
	• wan: wan: (empty) wan6: (empty)
	O unspecified -or- create:
	Ochoose the firewall zone you want to assign to this interface. Select unspecified to remove the interface from the associated zone or fill out the create field to define a new zone and attach the interface to it.
	Submit Back to scan results

8. Click on Network, then WiFi, then click on Enable next to your WiFi SSID



BG7IYN AUTO REFRESH ON Status radio0: Master "DMRP25YSF-6CFA" radio0: Client "TZB" Wireless Overview Generic WEXT 802.11bg (radio0) Scan <u>*</u> Add a SSID: DMRP25YSF-6CFA | Mode: Master Disable Edit 2 Remove 10% BSSID: 0C:EF:AF:D2:6C:FA | Encryption: i SSID: TZB | Mode: Client 2 Enable 2 Edit 🗴 Remove 10% Wireless is disabled or not associated Activate this network **Associated Stations** SSID MAC-Address IPv4-Address Signal Noise RX Rate TX Rate No information available Downrod by DC7IVN 2010 radio0: Client "TZB" radio0: Master "DMRP25YSF-6CFA"

Wireless Network: Client "TZB" (apcli0)

The Device Configuration section covers physical settings of the radio hardware such as channel, transmit power or antenna selection which are shared among all defined wireless networks (if the radio hardware is multi-SSID capable). Per network settings like encryption or operation mode are grouped in the Interface Configuration.

Device Configuration

General Setup			
	Status	10%	SSID: TZB Mode: Client Wireless is disabled or not associated
Wireless network	is disabled	Enable	
Interface Con	figuration		
General Setup	Wireless S	ecurity	
	ESSID	TZB	
	Mode	Client	~
	💽 Ba	ck to Overview	Save & Apply Save Reset



Configure DMR ID and Frequency

BG7IYN	Status -	System +	Network -	Logou	t					
DMR P Host Runnin	P25 Setti g Ready QSO	System Administra Software Startup	ation	205	P26Hosts	TECH				
Restart to B	Giobai	Scheduleo Mount Poi RADIO_D LED Conf Backup / f	d Tasks ints MR_P25 iguration Flash	ce	P20Hosis	TECH				
		Reboot						Save & Apply	Save	Reset

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9. Enter your Call Sign and DMR ID. Also select the frequency for your hotspot, both TX and RX should be the same (choose a frequency that will not interefere with local repeaters or other communications)

DMR P25 Setting Here

Service	Global	YSF	YSFHosts	P25	P25Hosts	TECH
[General] Cellsion=BH		ange te	vour call	eian		
Id=4608012	UDID UT	ange ce	your carr	sign u		
Timeout=240) CI	nange t	o your amr	las		
Duplex=0						
# ModeHang	=10					
NetModeHan	g=300 hg=300					
Display=Nex	tion					
Daemon=0						
[Info] RXFrequency Power=1 Latitude=22.3 Longitude=1 Height=3 Location="N Description= URL=http://iu	y=43960000 y=43960000 5668 13.9678 Y" "USA" IMDOM ini	0 RX/T)	(freq must	: same		



DMR P25 Setting Here Host Running Ready QSO

Service	Global	YSF	YSFHosts	P25	P25Hosts
[D-Star]	21				
Enable=0 Module=C SelfOnly=0 AckReply=1 AckTime=75 AckMessage ErrorReply=' RemoteGate # ModeHang	0 ==0 1 way=0 ==10				
[DMR] Enable=1 Beacons=1 Beaconlutan ColorCode=' SelfOnly=0 EmbeddedL(DumoTADate @ Changing	Set 1 to val=100 tion=3 1 COnly=0 a=1 MMDVM.ini	enable	DMR		

DMR P25 Setting Here

Service	Global	YSF	YSFHosts	P25	P25Hosts	TECH
[NXDN Id Lo File=/etc/NXI Time=24	okup] DN.csv					
[Modem] Port=/dev/tty #gm950i_TX #gm300_RX TXInvert=0 RXInvert=0 PTTInvert=0 TXDelay=100	S1 Invert_0_RJ Invert_0_TX	Kinvert_0 Kinvert_1				
RXOffset=0 TXOffset=0 DMRDelay=(RXLevel=50 TXLevel=50 TXDCOffset= CWIdTXLeve D-StarTXLeve	RXOff:	set see	on labels			
Changing	MMDVM.ini					



Optional Modes

Service	Global	YSF	YSFHosts	P25
System Fusi Enable=1 .owDeviation SelfOnly=0 TXHang=4 #DSQ=1 RemoteGate ModeHang=5	ion] n=0 way=0	1 enal	ole YAESU	
P25] Enable=1 VAC=293 SelfOnly=0 OverrideUID RemoteGate # ModeHang	set 1 Check=0 way=0 =10	enabl	e P25	
NXDN] Enable=0 RAN=1 SelfOnly=0 Changing	don' MMDVM.ini	t suppo	ort NXDN ye	t

10. Change the IP address to the nearest US DMR BrandMeister Master server

3101 New York, NY is IP 107.191.99.14
3102 Dallas, TX is IP 74.91.114.19
3103 San Jose, CA is IP 74.91.118.251
3108 Atlanta, GA is IP 64.94.238.196



DMR P25 Setting Here

Host Running Ready QSO

YSF P25 Service Global **YSFHosts** P25Hosts TECH Debug=0 [DMR Network] Enable=1 Address=47.100.76.205 change this BM server IP for your country #bm.dv.or.kr 47.100.76.205 Port=62031 Jitter=300 # Local=62032 Password=passw0rd # Options= # Options=StartRef=46001;RelinkTime=15;UserLink=1;TS1_1=460;TS1_2=46600;TS1_3=3100;TS1_4=91;TS1_5=92; Slot1=1 Slot2=1 # ModeHang=5 Debug=0

DMR P25 Setting Here

Service	Global	YSF	YSFHosts	P25	P25Hosts	TECH
PWMBright= PWMDim=16	100 3					
DisplayClock UTC=0	(=1					
[Nextion] Port=modem # Port=/dev/t #Port=/\.\CO Brightness=5 DisplayClock UTC=0 IdleBrightnes ScreenLayou	tyAMA0 M5 50 (=1 is=10 it=3	ge this	to modem	support	2.2inch	tft lcd



OPTIONAL SETTINGS FOR YSF MODE

DMR P25 Setting Here

Host Running Ready QSO

Service	Global	YSF	YSFHosts	P25	P25Hosts	ТЕСН
[Network] Startup=Loc #Startup=Ct #Startup=Ct InactivityTim Revert=0 Debug=0	al Parrot N-China-03 N China #1 eout=60	defaul FT2D t YSFHos	t YSF Serv o select S ts's Name	er is H erver,(^D arrot, you or change S	can just press X button on tartup Server Reference
[aprs.fl] Enable=0 # Server=euro Port=14580 #it is your ap #Password= Password=2 Description= Suffix=Y	Set 1 ia.aprs2.net .aprs2.net ors password 15505 4482 Cha Jumbospot	you can d ange you YSF lgate	see your f r aprs pas	Callsig sword	gn on aprs. to login ap	fi when you press PTT on FT2D ors

DMR P25 Setting Here





DMR P25 Setting Here

Host Running Ready QSO

Service	Global	YSF	YSFHosts	P25	P25Hosts	TECH	
FileRoot=15	FGateway						
[YSF Networ	k]						
Enable=1							
Port=42000							
Hosts=/etc/Y	SFHosts.txt						
ParrotAddree	-ou ss=127.0.0.1						
ParrotPort=4	2012						
YSF2DMRA	ddress=127.	0.0.1					
YSF2DMRP(ort=42013						
YSF2NXDN/	Address=127	.0.0.1					
YSF2NXDNF	Port=42014						
YSF2P25Ad	dress=127.0	.0.1					
13FZPZ0P0	1=42015						
[FCS Networ Enable=1 Rooms=/etc/ Port=42001	k] set 1 FCSRooms.	you ca txt	an use FT2	D press	X button	to select	Server

OPTIONAL SETTINGS FOR YSF MODE

DMR P25 Setting Here

Service	Global	YSF	YSFHosts	P25	P25Hosts	TECH		
Copy CN	China#2	to YSF	StartUP	if you	want use	this server	default	
39552;BM-T	G-2087;BrMs G-2088;BrMs	tr TG2087;	51.254.126.21	12;42007;	001;			
81116;BM-T0	G-20883;BrM	str TG2088	3;51.254.126	.212;4200	3;001;			
35402;BM-T 36096:BR YS	G-2089;BrMs SF724·C4FM	tr TG2089; - DV Braz:	51.254.126.21 66.55.64.14-4	12;42009; 2000-004	001; :http://vsf.dvbr	azil.com.br/		
85044;C4FM	-SEOUL;TG	45004 XLX	170;121.162.9	1.45;420	00;003;http://y	sfso.dvham.com/ir	ndexysf.php	
77353;CA Ci 49473;CA Qi	77353;CA Canada;C4FM Ontario;144.217.241.23;42100;010;http://c4fmontario.hopto.org 49473:CA QUEBEC:OC FR Fusion:64 34 60 44:42000:001:http://www.ve2mrc.com/vsfr/index.php							
79602;Caroli	79602;Carolina Link;Carolina Link;52.3.47.55;42000;007;http://52.3.47.55/index.php							
52796;CH Z	30998;CH 228 Swiss;Brage BM22820;176.10.105.210;42000;007;http://yst.hb-connect.ch/ 52796;CH JOTA;Jota CH;157.161.57.65;42001;000;http://pl2.woody.ch:8080/YSFReflector-Dashboard/ (ipv6 only)							
18829;CN C	18829;CN CC#1;TG 460501;47.104.177.248;42000;001;https://mmdvm.cc/ysf/							
82442;CN C	hina #1;04Ph hina #2;W24;	269/TG460	72;116.6.107.	115;42006	6;007;http://ufc	zhuzi.tpddns.cn:8	081/	
09724;CN Cl 40973;CN-Cl	09724;CN China #99;YSF Test;103.107.105.251;42000;000;http://ysf.ncwxd.com							
30490;CO 4	30490;CO 4 KILO MIKE;Antioquia;190.159.68.105;42000;000;							
36245;CO H 72001-CO H	36245;CO HK_BMDMR_LCRA;YSF to DMR;186.29.69.76;42000;002;http://bmdmr.lcra.org.co							
12001,0011		1,011			estes curdently	on 1912 of 9100		



OPTIONAL SETTINGS FOR P25

DMR P25 Setting Here

Service	Global	YSF	YSFHosts	P25	P25Hosts	TECH		
[General]								
Callsign=BH	8DIB	Change 1	to your					
RptAddress=	127.0.0.1	callsig	n					
RptPort=320	10							
LocalPort=42	2020							
Announceme	ents=1							
Daemon=0								
[Id Lookup]								
Name=/etc/D	MRIds.dat							
Time=24								
[Log]								
# Logging lev	vels, 0=No I	logging						
DisplayLevel	=1							
FileLevel=0								
FilePath=/tm	p/							
FileRoot=P2	5Gateway							
[Network]	-					D06	: D06U	
Startup=104	02 chang	ge the n	umber you	want t	o startup	PZD server, Rete	rence in P20Hos	STS
Changing	P25Gatewa	ay.ini						
acific, 1040x								
100 pacificte/	5.repeaters.in	nto 41000 nto 41010						
47.104.1	77.248	41010	1000					
03 120.234.	41.144	4	1000					
i Dk								
99 65.101.7	w, 20299							
labama Link 110 p25 alab	amalink info	41000						
10 p20.000	amainte.nito	41000						
1665 P25-DMR	Gateway							
65 74.91.12	7.166 41000							
1672 P25 Pi-St	ar chat							
372 w1msg.tr	rianglenc.net	41000						
0525 Bridge to '	YSF, NXDN a	nd DMR						
50525.p2	25dvm.com	41000						
dd new p25	server i	n new line	e here					
Changing P25H	osts.ini							



Host Running Ready QSO

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11. When done setting all the desired Modes, Click on Service tab, then Save & Apply, then Restart

DMR P25 Setting Here

Service	Global	YSF YSFHosts	P25 P25	5Hosts	TECH				
Restart to E	nable New Con	fig 🦉 RESTART	Service	\sub	2		1		
a	fter cange	,press 1,2 to	enable new	config			\checkmark		
							Save & Apply	Save	Reset

12. Should you have any issues, you can reset the Hostpot and start over by clicking **Perform Reset**

BG7IYN Status - Sy	stem + Network + Logout
Flash operations	3
Actions Configuration	
Backup / Restore	
Click "Generate archive" to dowr squashfs images).	aload a tar archive of the current configuration files. To reset the firmware to its initial state, click "Perfor
Download backup:	Generate archive
Reset to defaults:	Perform reset if have problem just
To restore configuration files, vo	u can upload a previously generated backup archive here
Bestere beelure	Charge Sile No file chorge
Restore backup:	Grouse File No file chosen
Flash new firmware ir	nage
Upload a sysupgrade-compatible compatible firmware image).	e image here to replace the running firmware. Check "Keep settings" to retain the current configuration
Keep settings:	
Image	Choose File No file chosen



Final Step

Program the codeplug on your DMR radio with each channel matching the frequency of the hotspot, and start enjoying full access to the DMR network.

END OF DOCUMENT