



DMR DISCUSSION

WestVARS May Meeting 2020

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WHY DISCUSS DIGITAL MODES?

- More QSO opportunities
- There is interest in the club
- There are opportunities to evaluate
- The modes you have heard of...
 - DMR
 - D-Star
 - Fusion Wires-X
- What about Echo Link?

TWO WAYS TO CONNECT





QUICK OVERVIEW

- D-Star
 - Oldest and an Amateur Radio effort
 - Open standard
 - Repeaters near Deland – One W4PLB Sanford
- DMR – with Brandmeister
 - Engineered for business and championed by Motorola
 - Reportedly the fastest growing
 - Repeaters near Deland – NY4Z, W2BFD, N2NEI, KN4GVY, and KN4EHC
- System Fusion
 - Newest of the bunch
 - Proprietary – Yeasu
 - Handles mixed mode well – digital & analog
 - Repeaters near Deland - none

SIMILAR CHARACTERISTICS

Feature / Item	D-Star	DMR-Marc / Brandmeister	Fusion Wires-X
Ease Of Use	Easy	Easy	Easy
Flex-ability	High	High	High
Multi-band Radios Available	Yes	Yes	Yes
Connect-ability	Yes	Yes	Yes
Voice Quality	Good	Great	Great
Bandwidth	6.25	12.5	12.5 / 6.25
Concurrent Voice Channels	1	2	1
Error Correction	Good	Great	Great

<https://www.mikemyers.me/blog/2016/2/19/d-star-dmr-fusion-which-is-right-for-you-7nhdl>

THE DIFFERENTIATORS

Feature / Item	D-Star	DMR-Marc / Brandmeister	Fusion Wires-X
Ease Of Programming	Easy	More Difficult	Easy
Cost	\$299 - \$899	\$60 and up	\$299 - \$700
Survivability	High	Medium	Low
Multiple Manufactures	Few	Lots	One
Access The Network via "Non Radio"	Yes	Yes	No
Digital ID (call sign)	Yes	No	Yes
Mixed Mode Repeaters	No	With Limitations	Yes
Ease of Multi-User	Good	Poor	Good

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DEMO

- Hotspot
- Radio Programming
- QSO