



DIGITAL RADIO HOTSPOTS





DIGITAL RADIO FORMATS



D-STAR

DMR

FUSION

P25

NXDN



DIGITAL RADIO OPERATION



- **SIMPLEX**
- **REPEATER**
- **FORMATS NOT COMPATIBLE**



DIGITAL RADIO AND REPEATERS



- **REPEATER WITHIN RANGE**
- **REPEATER AVAILABLE FOR USE**
- **REPEATER CONNECTED TO NETWORK**



THE HOT SPOT



- **YOUR CHOICE OF DIGITAL FORMAT**
- **YOUR CHOICE OF NETWORK TO JOIN**
- **PORTABLE AND FLEXIBLE**



THINGS TO LOOK FOR IN A HOT SPOT



- **SUPPORT FOR YOUR DESIRED FORMAT(S)**
- **PLUG-AND-PLAY OR ROLL YOUR OWN**
- **FREQUENCY SUPPORT**
- **FUTURE DEVELOPMENT PATH**
- **PRICE AND AVAILABILITY**



DVAP





DVAP



- **BANDS : 2 m, 1.25 m, or 70 cm**
- **FORMAT: D-STAR**
- **WORKS WITH: WINDOWS PC OR INTEL BASED MAC**
- **NEEDS PC WITH INTERNET CONNECTION**
- **ALSO WORKS WITH RPi AND LINUX SYSTEMS**
- **PRICE: \$250**



DV4Mini





DV4Mini



- **BANDS: 2 m or 70 cm**
- **FORMAT: D-STAR, DMR, FUSION, P25**
- **WORKS WITH: WINDOWS OR LINUX PC**
- **NEEDS PC WITH INTERNET CONNECTION**
- **ALSO SUPPORTS RPi AND AN AMBE VERSION**
- **PRICE: \$130 - \$230**



DVMEGA





DVMEGA



- **BANDS: 2 m, 70 cm, OR DUAL BAND**
- **FORMAT: D-STAR, DMR, FUSION, OTHERS WITH MMDVM**
- **WORKS WITH: WINDOWS OR LINUX SYSTEMS**
- **NEEDS PC WITH INTERNET CONNECTION**
- **ALSO SUPPORTS RPi, ARDUINO, AND MMDVM SOFTWARE FOR ADDITIONAL MODES**
- **PRICE: \$130 - \$200**



BLUESTACK



- **ADD ON BOARD FOR DVMEGA DEVICE**
- **PROVIDES BLUETOOTH INTERFACE FOR DVMEGA**
- **ALLOWS CONNECTION TO PC VIA BLUETOOTH**
- **ALSO ALLOWS CONNECTION TO ANDROID DEVICE FOR MOBILE OPERATIONS**
- **PRICE: \$50**



SHARK RF





SHARK RF



- **BANDS: 70 cm**
- **FORMAT: D-STAR, DMR, FUSION – MORE TO COME**
- **WORKS WITH: STANDALONE DEVICE**
- **NEEDS INTERNET CONNECTION VIA ETHERNET**
- **ALSO SUPPORTS CROSS FORMAT MODEM OPERATIONS**
- **PRICE: \$230**



DV4HOME

\$450





NETWORKS AVAILABLE



**D-STAR AND FUSION SYSTEMS MAINTAINED BY ICOM
AND YAESU – NOT ALWAYS AVAILABLE VIA HOTSPOTS**

DMR-MARC SYSTEM

DMR-PLUS SYSTEM

BRANDMEISTER SYSTEM

FUSION NETWORKS OUTSIDE OF YAESU SYSTEM



CONCLUSIONS



DV4Mini OK, but some reports of poor audio

DVAP Good, but expensive and limited to D-Star

DVMega/Bluestack excellent for flexibility of modes and connection capabilities, with large group of open source support

Shark RF excellent for plug-and-play setup and ability to operate without separate computer



QUESTIONS?



LINKS



<https://www.sharkrf.com/>

<http://www.dvmega.auria.nl/>

<http://www.pa7lim.nl/bluedv/>

<http://wirelesshold.com/dv4mini.aspx>

http://www.dvapdongle.com/DV_Access_Point_Dongle/Home.html

<http://brandmeister.network>



73