

Yaesu Fusion / C4FM Update



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BayCon 2020
2/8/2020 v1

New Hardware since BayCon 2018



- FT3DR – 2m/70cm dual band HT with APRS with color display

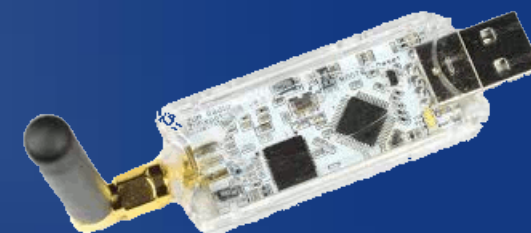


- FTM-7250DR – 2m/70cm dual band / single VFO mobile radio (no APRS)



- ZumSpot OLED & ZumSpot USB

- OpenSpot v2 and now v3



Removed Hardware since BayCon 2018



- DV4Mini – RF “soundcard” (didn't all that work well), support removed from Brandmeister network
- Yaesu FT-1 radio (EOLed)
- DR1 repeater (EOLed)
- OpenSpot v1 (EOLed)
- DV-Mega (EOLed)

New YSF News and Features

- PDN
 - - Allows some Yaesu radios to act as hotspots
 - for digital ONLY QSOs
 - - You either need
 - ▣ - Another radio for QSOs (like any other hotspot)
 - ▣ - use the “wired / tethered” radio connected to Windows machine
 - - No room support (that requires an HRI200)
Allows more secure remote ON-AIR management
 - Still requires a Windows computer to run Wires-X

C4FM Hardware Recap



A Quick Refresh:

What is Yaesu System Fusion / C4FM?

System Fusion is Yaesu's answer to the digital radio market vs. Dstar (Icom/Kenwood) and DMR (Motorola, Hytera, Tetra, etc)

C4FM : Continuous Four Level Frequency Modulation –
A type of 4FSK / FDMA

- This is the **same** mode used in P25 Phase1 used by emergency responders but the higher layer data framing isn't compatible
- C4FM envelope uses 12.5Khz BW (~narrow FM)
- Uses DVSI AMBE2+ chip also used in DMR & P25 but *newer* codec than D*star – all are patent encumbered

Digital Voice @ BayNet Tomorrow #2

- Baynet is setting up a BrandMeister / XLX gateway for cross-digital-mode bridging using DV-Swtich
 - Lots of innovation is happening here
 - Offering an interoperability bridge on a repeater would be unique to other C4FM systems in the Bay Area making other systems like DMR, Dstar, C4FM, P25, and even IRLP / Echolink / AllStar reachable!
 - We could choose to keep our WiresX controller running to bridge into WiresX rooms like “Americas Link”, etc

Thank you!

Any Questions?

Digital Voice @ BayNet Tomorrow?

- Does BayNet have a preference of YSF over Dstar / DMR or even Analog FM?
 - No, this is just what we have today and we don't have enough repeater pairs to do everything
- Are we upgrading any of the hardware on the YSF side?
 - We are sticking with the DR1X for now
 - If we want more power (20w), we'll add an amp
 - IMRS is really for private digital linking
 - DP-ID is for private calling which isn't how BayNet operates.. :-)