Fusion Handy Guide

Local Repeaters

Popular Rooms

27793	CQ-UK
21080	America Link
41755	North West Group
41893	Southern-Fusion

GB3FK: Folkestone Dual Mode Repeater with Wires X Enabled

- Output: 145.750 MHz

- Input: 145.150 MHz

- Dual Mode FM / Fusion, CTCSS 103.5

During November 2021 GB3FK has had a lot of work completed with improved coverage. We have found the use of Fusion is very high.

The repeater is in AUTO/AUTO Mode which effectively means FM in and FM out, C4FM in (Fusion) gives C4FM out.

For FM you must have CTCSS enabled, 103.5. **If you are not using a Fusion radio please ensure you look at the S Meter before you transmit in case it is being used on Digital.**

If you are using a Yaesu Fusion radio, ensure you select AMS Mode (Automatic Mode Select) so your radio will switch on its own to each mode.

Locals tend to use CQ-UK and the America link where there is often activity and someone to talk to. There are some interesting chats on here from stations all over the world.

FADARS Net

Please Remember the FADARS Net held weekly on GB3FK

The net is held on Monday evening from 19:30hrs on FM

Please feel free to join in the net which now has more stations joining in.

Please ensure there is no Wires X Activity around this time.

You can access the FADARS Net direct into GB3FK or via Echolink.

New Radios from Yaesu

If you haven't got a Fusion Radio, you can get the entry level handheld which is the Yaesu FT-70DR which is a Dual Band FM/Fusion Radio priced at £169.95*

The new top of the range Dual Band FM / Fusion handheld is the FT5DE which has not long been released. This is priced at £399.95.* Prices December 2021

These Radios can be purchased from Moonraker. Do Support Moonraker, as they support The Folkestone Repeater Group.

Please Disconnect when done!

Please Disconnect from the Wires X room after your QSO. This is done on the MH-48 Microphone (for the mobile radios) by pressing and holding the BAND button. The BAND button is also used on handhelds. Note you must be in "Wires X Mode" on the radio in order to disconnect.

Useful Links

- https://www.folkestonerepeatergroup.org.uk

FT1DE Basics

Programming your callsign into the radio

1. Before using the FT1DE on Wires-X the callsign needs to be inputted into the radio.

2. To program the callsign hold the 'DISP' key for 2 seconds , navigate to '12 CALLSIGN', Press 'ENT', type your callsign and press 'ENT' again

Entering WIRES-X Mode

1. Navigate to a fusion repeater or node channel in the radio.

2. Press the 'DX' button repeatedly until 'DN' is displayed in the bottom right of the display.

3. Hold the 'DX' button until 'X' is flashing in the top right corner of the display

4. When the radio if in WIRES-X mode the 'X' will be flashing. If this is not the case, repeat step 3,

Connecting to a specific room number

1. Momentarily press 'F' then 'BAND'

2. Type the node number with the keypad

3. Hold the 'ENT' Key until 'Waiting' is displayed on the display

Finding rooms via the radio

1. Hold 'ENT' until the categories list is displayed

2. Scroll down the 'ALL' using the rotary knob on the top of the radio.

3. A press of 'ENT' will display active rooms in order of number of connections

4. Select a room with the rotary knob and press 'ENT' to connect.

Disconnecting from a room

- Hold the 'BAND' key.

- Note that it is not necessary to disconnect from a room to connect to another one

- If you wish to use a repeater in standalone mode (not connected to any room) it is necessary to exit WIRES-X by holding the 'DX' key. Otherwise pressing the PTT connects to the previous room.

FTM400 Basics

Programming your callsign into the radio

1. Before using the FTM400 on Wires-x the callsign needs to be inputted on the radio.

2. To Programe the callsign— hold down DISP/Setup key, then on the touchscreen tap "callsign" enter your callsign here.

Entering the WIRES-X Mode note this must be on the Top A VFO.

1 Navigate to a fusion repeater or node channel in the radio on Band A

2 Press the "DX" Button until DN is displayed on the left hand side of the radio

3 Push and hold the DX Button

4 When the radio is in wires x mode the X will flash, it will turn solid when a node / repeater is found.

To connect to a room push the down button under the node / repeater callsign

The menu list will appear

Rotate or touch the screen and select "all"

A list of accessible nodes and rooms will appear on screen. Tap the callsign of the room / node to connect.

Local Fusion Users and Activity

Since the move of the repeater most of the traffic has been in fusion mode. There are lots of local stations with Fusion capable radios, and there is always someone monitoring for a local chat.

If you are stuck and don't understand there are plenty of people that can help you.

We will have a Zoom meeting early in 2022 to answer any questions about Fusion and the Wires X System. In the mean time, have a listen and join in the fun if you can!