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Introduction

Build 447 and higher support [MAP65-IQ](#) from [Joe Taylor, K1JT](#). MAP65-IQ is a single polarisation version of MAP65 supporting the JT65A, JT65B and JT65C modes. (MAP65 will be supported with dual NetSDR receivers, Q4 2010.)

SDR-RADIO.com sends complex (IQ) data via a UDP data stream at 95.238kHz to the computer where MAP65-IQ is running. The format of the packets was originally designed by Leif Asbrink in his Linrad program.



The *MAP65-IQ Support* pane is selected from the *Extras* tab in the ribbon bar.

The *MAP65-IQ Support* pane shows the the status of the UDP forwarding, this includes the selected VFO frequency, target address and a small waterfall for the data being sent. The bandwidth is fixed, for MAP65-IQ it *must* be 95.238Hz.

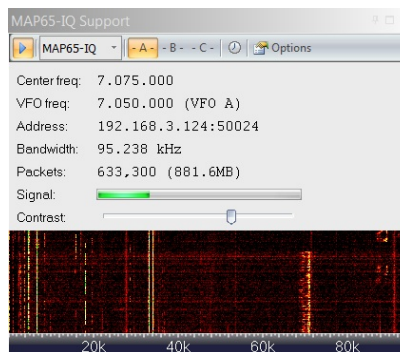
In the SDR-RADIO.com console:

- Press *Options* to select the IP Address of the computer where MAP65-IQ is running and the Port number assigned to MAP65-IQ (usually 50024). If you enter localhost or 127.0.0.1 as the address it will be replaced with the name of the local computer.
- Start a local RFspace radio (not a soundcard-based radio). You cannot use this option with a remote connection.
- Set a VFO to the center frequency of the 95kHz data spectrum to be sent to MAP65-IQ, for example on 20m 14.070.000.
- Make sure the same VFO is selected in the toolbar above,
- Press the *Play* button.

In MAP65-IQ:

- Make sure *Input data unicast* is checked in the *Setup* menu.
- Select *Options* from the *Setup* menu and set *Fcal (Hz)* to 0 (no offset).

After a few minutes you should see entries in the Messages window of MAP65-IQ. The screenshot below shows the result of two hours' monitoring on 20m.



The screenshot displays the MAP65-IQ software interface, which is used for receiving and decoding digital signals. The interface is divided into several windows:

- Messages:** A list of received messages with columns for frequency, DF, Pol, UTC, DT, and dB. The messages include call signs like 'YV9BFX' and 'YV9BFX' and various QSO logs.
- MAP65-IQ by K1JT:** The main control panel. It features a 'Moon' window showing the current moon phase (Sun) and its position (Az: 126.2, El: 17.0). Below this are controls for 'To radio', 'Grt', 'Az', 'Dist', 'Tol', and 'Decod'. The date and time are displayed as '2010 Oct 19 07:41:45'. The status bar at the bottom shows 'JTB5A QSO Freq: 130 OSQ DF: 0 Rr: -14.5 dB 0.0 % Drop: 0.00 %'.
- Band Map:** A window showing a list of active bands and their corresponding call signs, such as '81 *RV3IG 882 *YV9BFX 981 *QNSM'.
- Waterfall:** A spectral display showing signal strength over time. The x-axis represents frequency (0 to 1100 kHz) and the y-axis represents time. The display shows a clear signal at approximately 130 kHz.