



ELAD Application Note AN-003

Using FDM-DUO with WSJT-X (Ver. 1.8.0)

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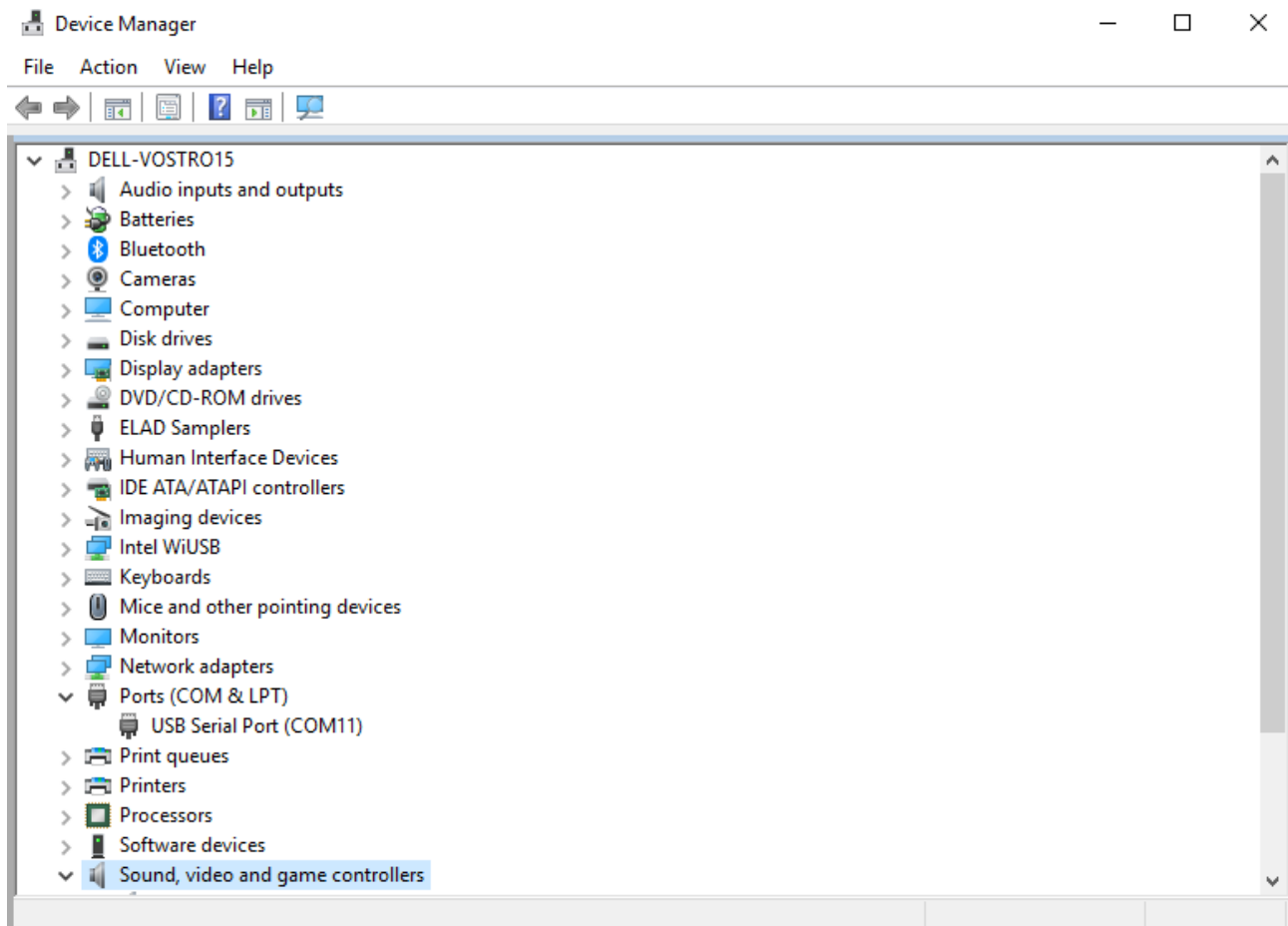
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Introduction

This application note describes how to use FT8 Protocol using WSJT-X and FDM-DUO.

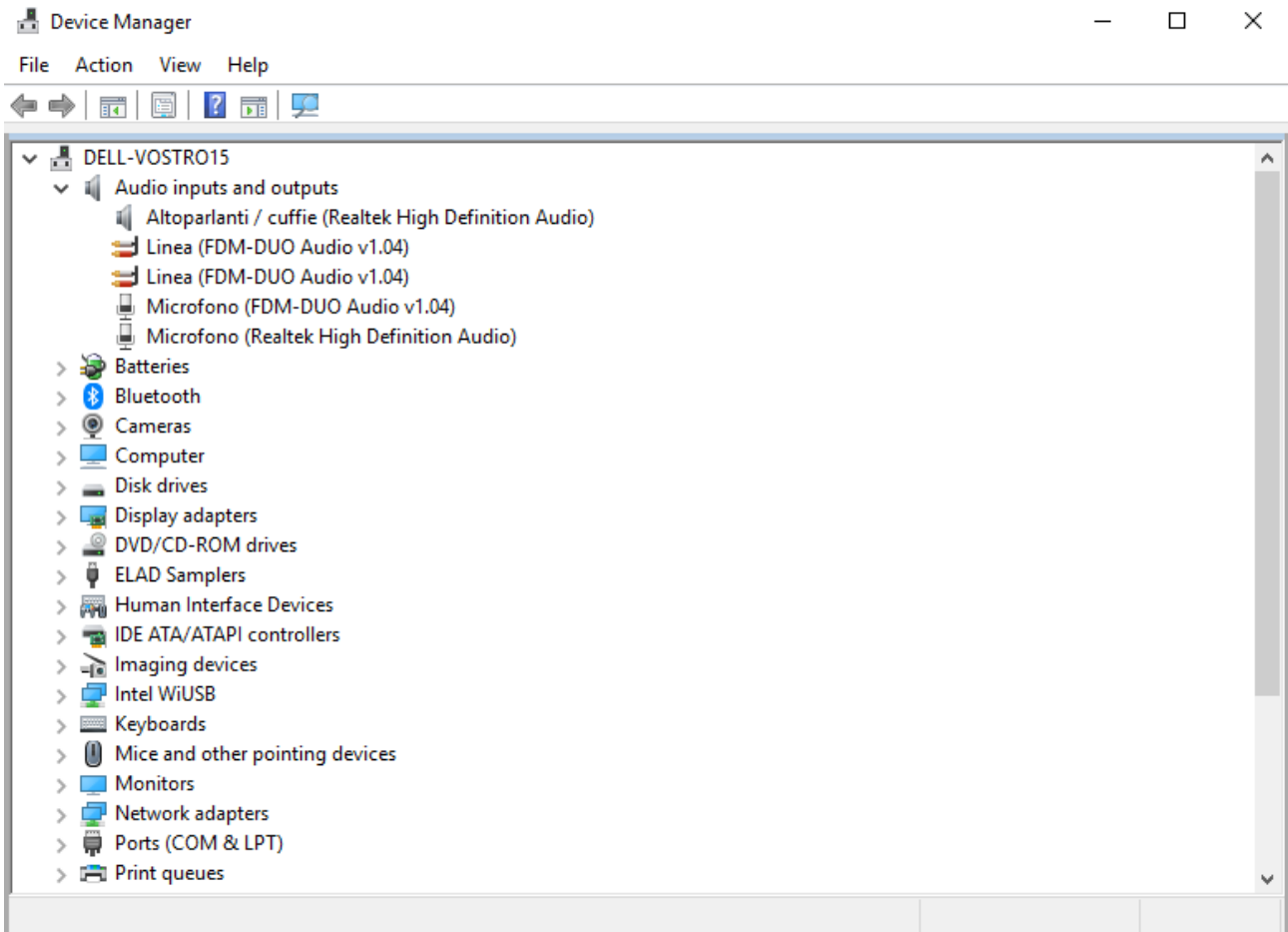
1 Pre-requirements

USB Serial Port driver from FTDI must be installed on the computer you are using. Then you need to identify the CAT USB port number. Open the Windows “Device Manager” and expand the “Ports (COM & LPT)” node. The CAT USB port is listed as “USB Serial Port”.

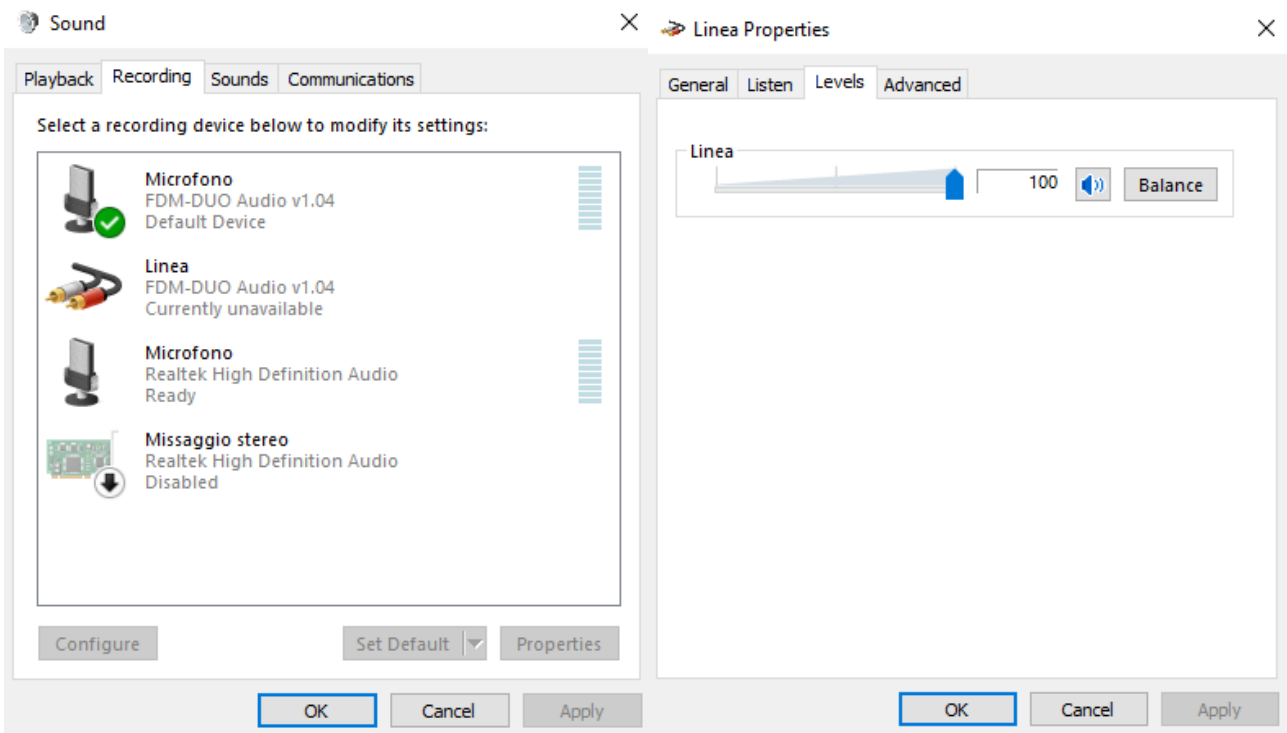
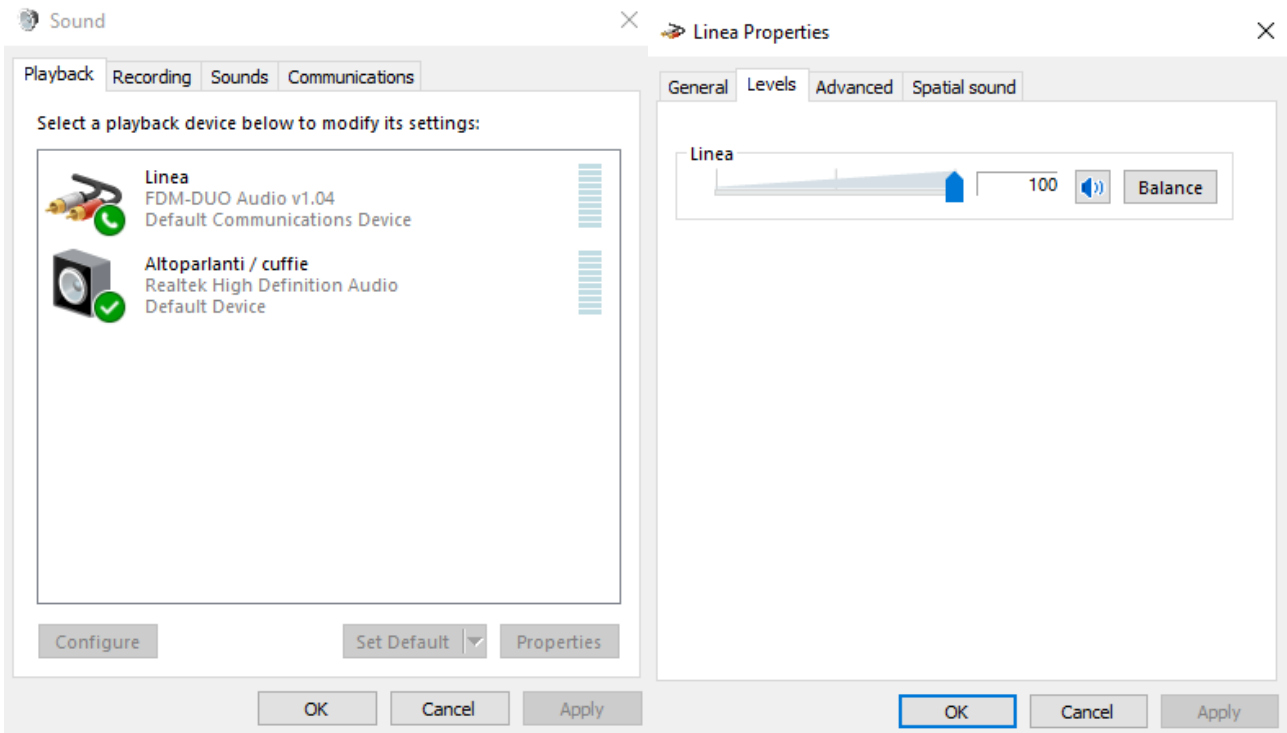


In this case the CAT USB port number is COM11.

Check if the computer detects the input and output audio lines of the FDM-DUO. You can find them under the “Audio inputs and outputs” node of the Device Manager.



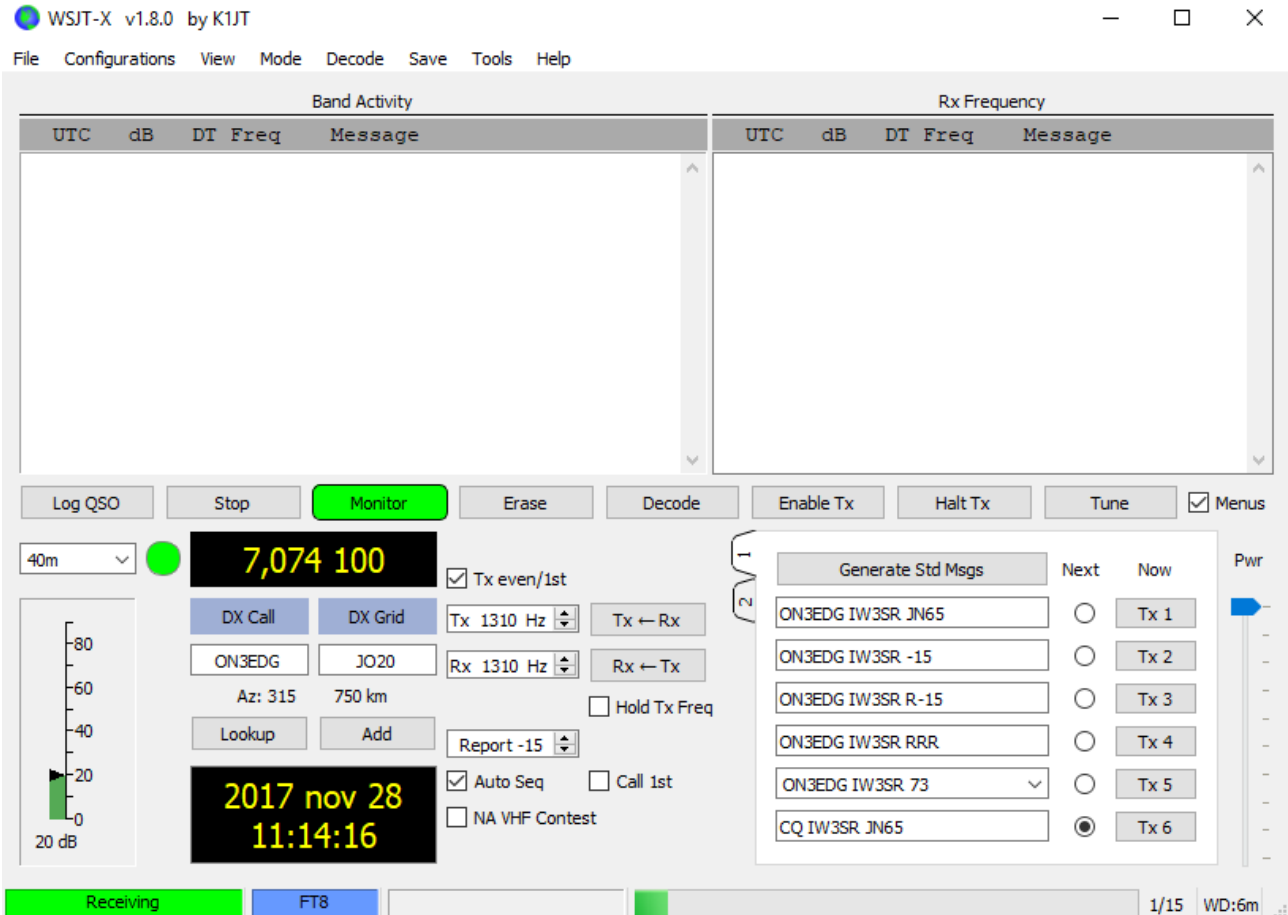
Check also the volume of the playback and recording devices.



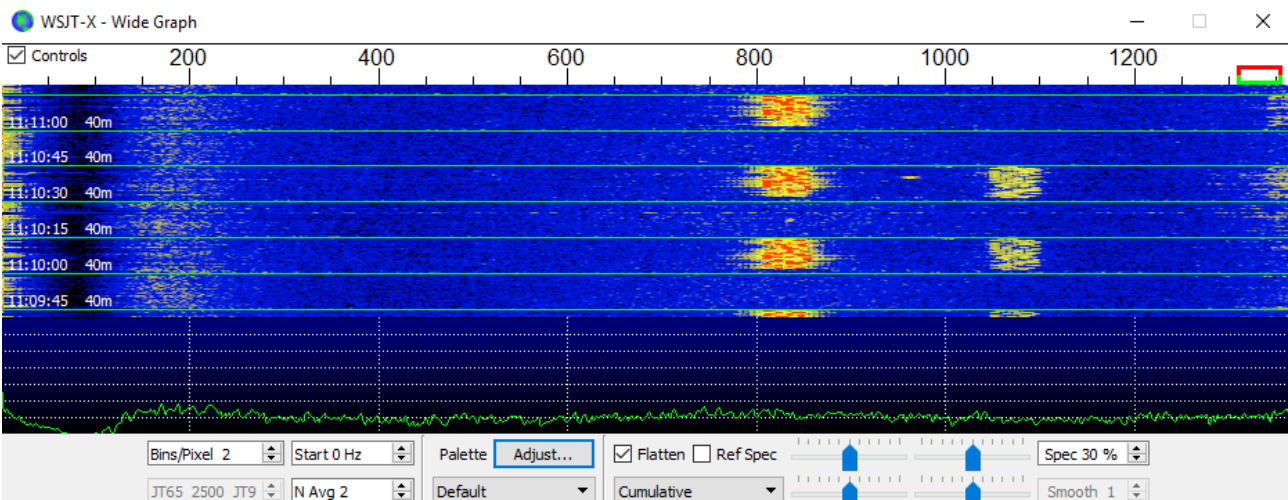
2 Settings

When opening the software it will show these two windows.

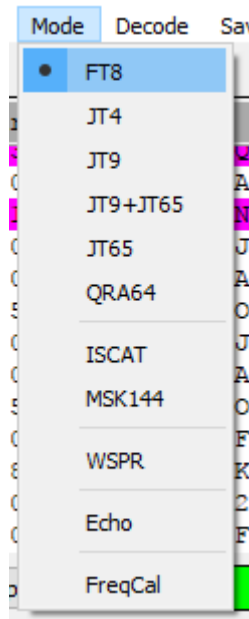
Main Window :



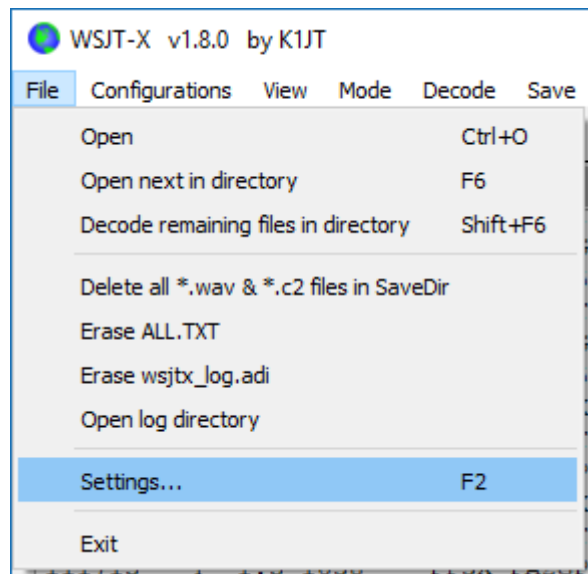
Wide Graph :



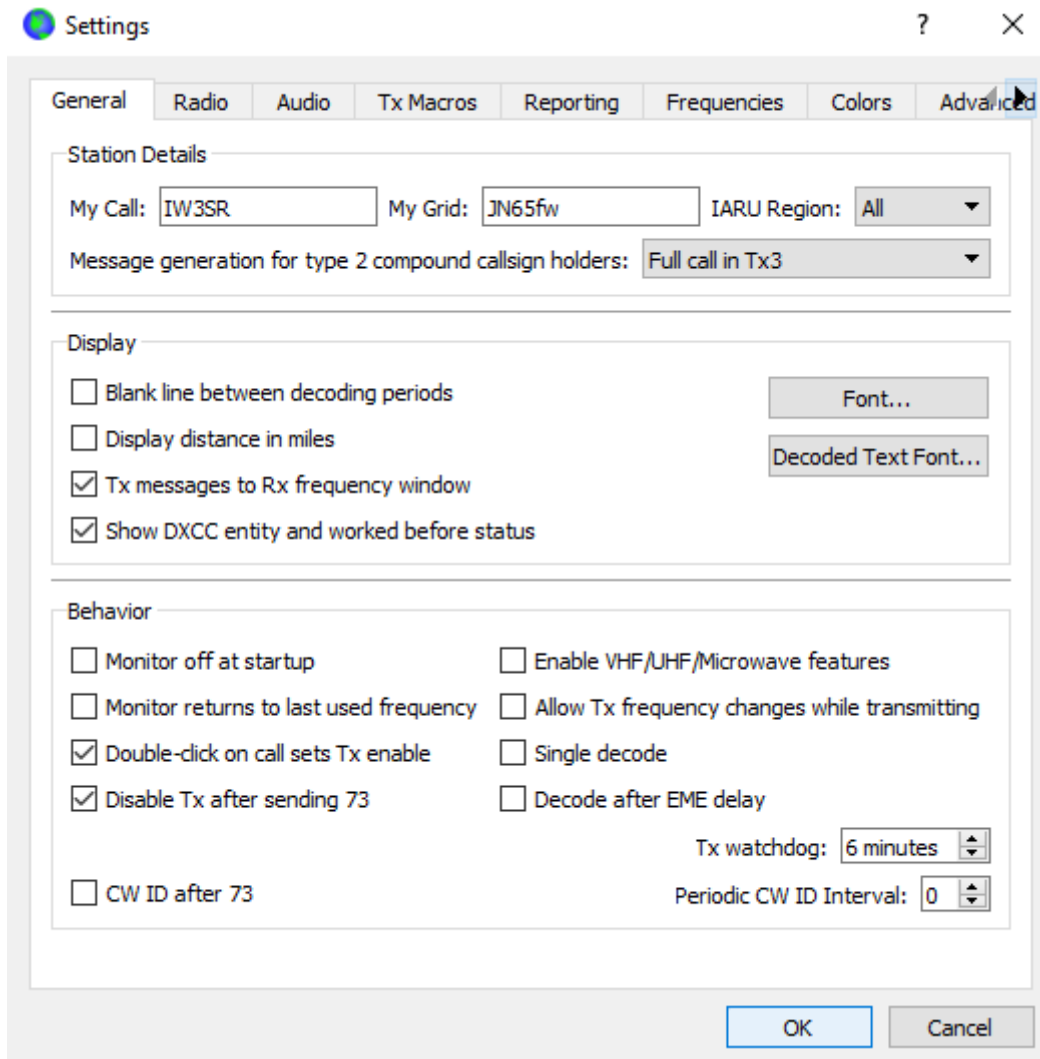
On the Main Window, go to the Mode menu and select FT8.



After that you have to set WSJT-X to work with the FDM-DUO, go to File and then Settings.

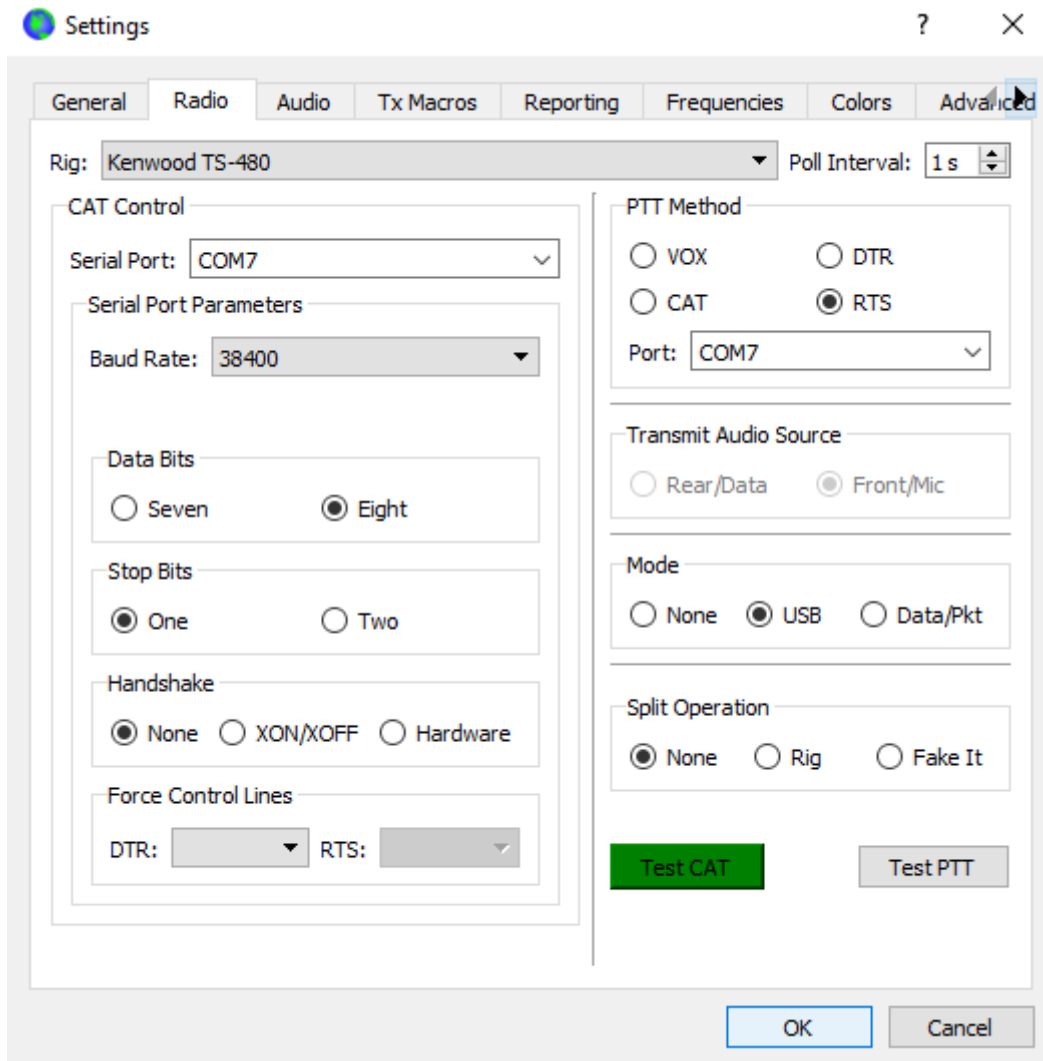


Set the General tab of the Settings window as follows.



Note: "My Call" and "My Grid" have to be set with your personal information.

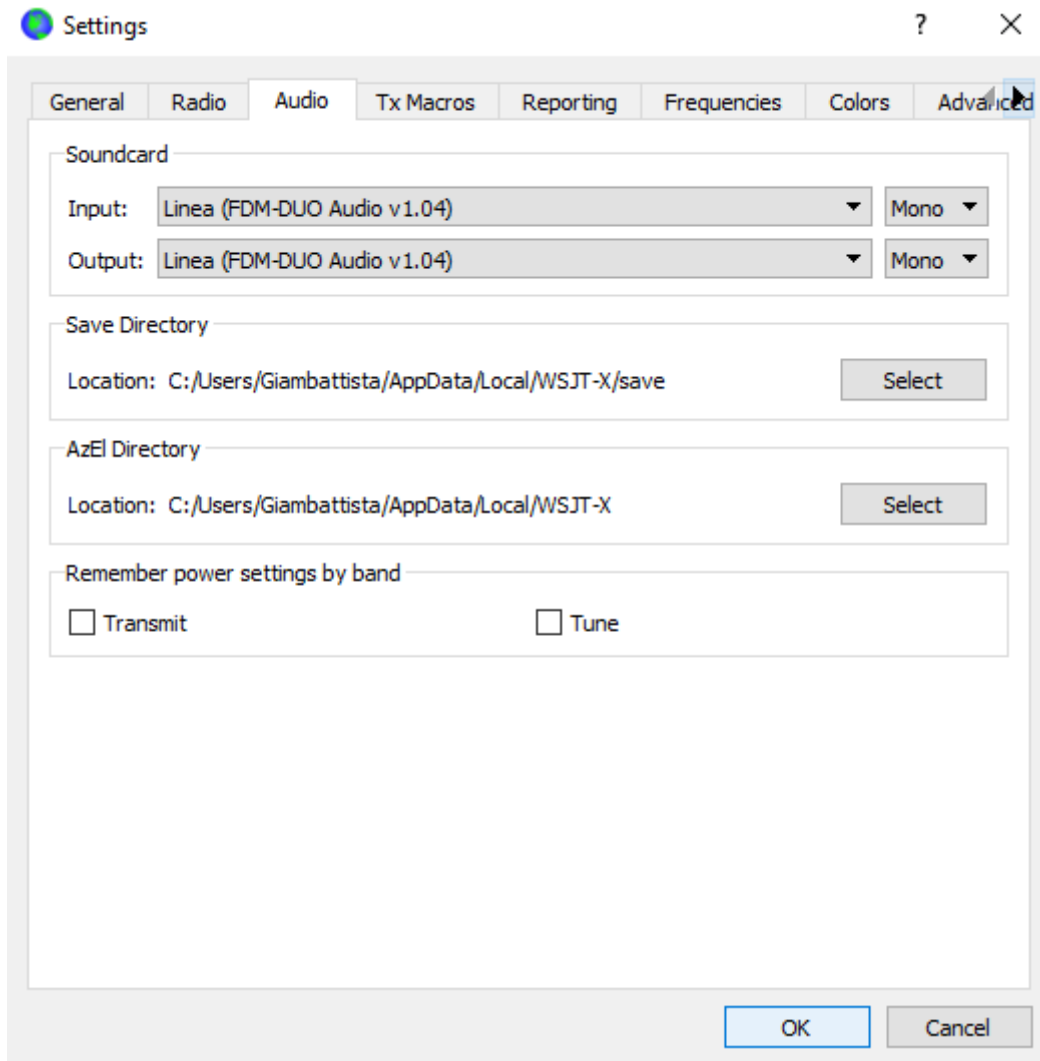
Set the Radio tab of the Settings window as follows. Be careful to choose the right COM port.



You can test the CAT connection using the “Test CAT” button.

If “PTT Method” is set to “RTS”, the “PTT” setting on the FDM-DUO (menu 54) has to be set on “PTT IN + RTS”.

Set the Audio tab of the Settings window as follows.



3 Receive and transmit

On the Main Window the Band Activity area shows the messages and the requests from other people.

UTC	dB	DT	Freq	Message
110745	0	-0.1	1297	~ CQ I2CZQ JN55 !Italy
110800	-18	0.7	503	~ BG7BDB OG5N KP00
110800	10	1.2	911	~ G7KFQ DJ7TH RRR
110800	-14	0.0	1201	~ ON3EDG DG00S R+07
110815	-13	0.8	1202	~ DG00S ON3EDG RRR
110815	-9	0.8	1256	~ CQ SP1HN JO73 !Poland
110815	-17	0.1	1297	~ CQ I2CZQ JN55 !Italy
110830	11	1.4	911	~ G7KFQ DJ7TH 73
110830	-10	0.7	1052	~ CQ SP6TRW JO71 !Poland
110830	-12	0.0	1201	~ ON3EDG DG00S 73
110845	-13	0.7	1202	~ DG00S ON3EDG 73
110845	-12	0.8	1256	~ CQ SP1HN JO73 !Poland
110845	-16	0.0	1297	~ CQ I2CZQ JN55 !Italy

You can answer to a request by double clicking on their name.

UTC	dB	DT	Freq	Message
110145	-6	0.8	1310	~ CQ ON3EDG JO20
110202	Tx		1310	~ ON3EDG IW3SR JN65
110215	-2	0.8	1310	~ IW3SR ON3EDG -07
110230	Tx		1310	~ ON3EDG IW3SR R-02
110245	4	0.8	1310	~ IW3SR ON3EDG RRR
110300	Tx		1310	~ ON3EDG IW3SR 73
110315	-7	0.8	1309	~ IW3SR ON3EDG 73
110415	-7	0.8	1309	~ CQ ON3EDG JO20
110445	-12	0.8	1310	~ CQ ON3EDG JO20

Generate Std Msgs	Next	Now
ON3EDG IW3SR JN65	<input type="radio"/>	Tx 1
ON3EDG IW3SR -15	<input type="radio"/>	Tx 2
ON3EDG IW3SR R-15	<input type="radio"/>	Tx 3
ON3EDG IW3SR RRR	<input type="radio"/>	Tx 4
ON3EDG IW3SR 73	<input type="radio"/>	Tx 5
IW3SR JN65	<input checked="" type="radio"/>	Tx 6

A sequence of messages will start and if you selected Auto Seq on the Main Window the software will send those messages automatically.