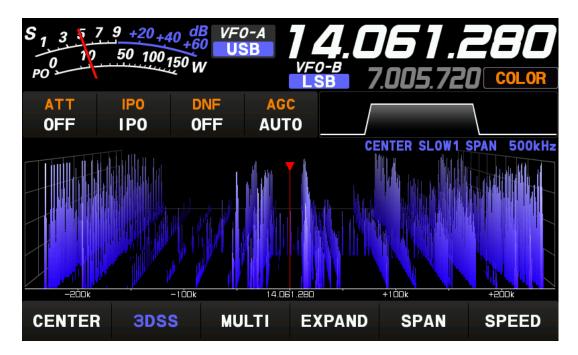


Technical Information

How to setup the WSJT-X to work with the FT-710

1) Check if your FT-710 has the latest firmware



Press the [FUNC] button on the radio

$S_{1} \xrightarrow{3} \xrightarrow{5} \xrightarrow{7} 1$ $PO \xrightarrow{9} 10$	7 9 +20 +4 50 100 1	0 4B +60 US 50 W	A B VFO- LS	1.0E 7.00	5 7. 2	COLOR
LEVEL -30.0dB	PEAK LV1	MARKER ON	COLOR 1	CONTRAST	DIMMER 5	M-GROUP
MIC GAIN 49	MIC EQ ON	PROC LEVEL OFF	AMC LEVEL	VOX GAIN 50	VOX DELAY 500ms	ANTI VOX 50
RF POWER 50W	MONI LEVEL OFF	KEYER OFF	BK-IN OFF	CW SPEED 18wpm	CW PITCH 700Hz	BK-DELAY 200ms
MESSAGE	RECORD	PLAY	TXW		AESS <mark>0%</mark>	AESS-CF 1000Hz
RADIO SETTING	CW Setting		DISPLAY Setting	EXTENSION Setting	ВА	СК

Touch EXTENSION SETTING



EXTENSION SETTING							
DATE&TIME	DAY						
	23						
SD CARD	MONTH						
SOFT VERSION	JAN						
	YEAR						
CALIBRATION	2023						
RESET	HOUR						
	16						
	MINUTE						
	35						
BACK							

Touch SOFTWARE VERSION

EXTENSION SETTING						
DATE&TIME	MAIN : V01-08					
SD CARD	DISPLAY : VO1-06					
SOFT VERSION						
CALIBRATION	DSP : V 01-00					
RESET	SDR : V01-03					
	DST : B2(EU)					
BACK						

Check the radio has the following versions or later

MAIN	: V01-08
DISPLAY	: V01-06
DSP	: V01-00
SDR	: V01-03

If not then you may have to upgrade the firmware of your radio.



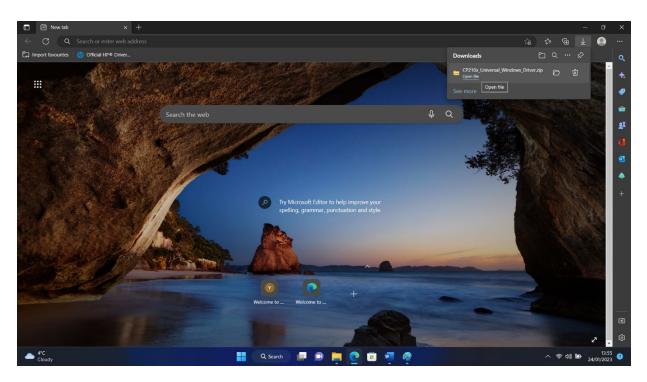
Technical Information

Touch BACK to get back to the frequency display.

2) Download and Install the FT-710 Silicon Labs Com port drivers.

Open your web browser and browse to

https://www.yaesu.com/downloadFile.cfm?FileID=17518&FileCatID=42&FileName=CP210x%5FUniversal%5 FWindows%5FDriver.zip&FileContentType=application%2Fx%2Dzip%2Dcompressed



Underneath CP210x_Universal_Windows_Driver.zip click Open File

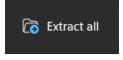


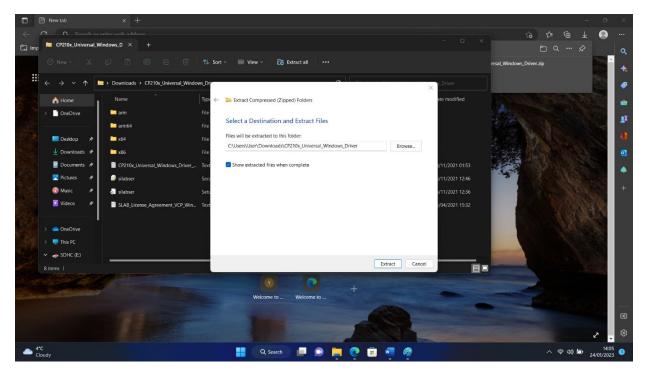
Technical Information

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🔀 Pictures	*	🥥 silabser	Security Catalogue	7 KI				16/11/2021 12:46			
🕑 Music	*	🔊 silabser	Setup Information	2 KI							
🚺 Videos	*	SLAB_License_Agreement_VCP_Win	Text Document	4 KI				16/04/2021 15:32		ALC: NOT	
> 🥌 OneDrive											
> 💻 This PC											
SDHC (E:)											
8 items								E			
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The download zip file will appear on the screen.

Click on the Extract all icon



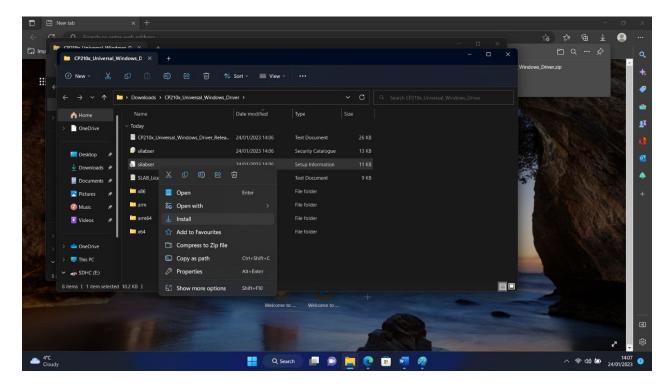


Yaesu UK Limited Unit 12 Sun Valley Business Park, Winnall Close, Winchester, Hampshire, SO23 0LB

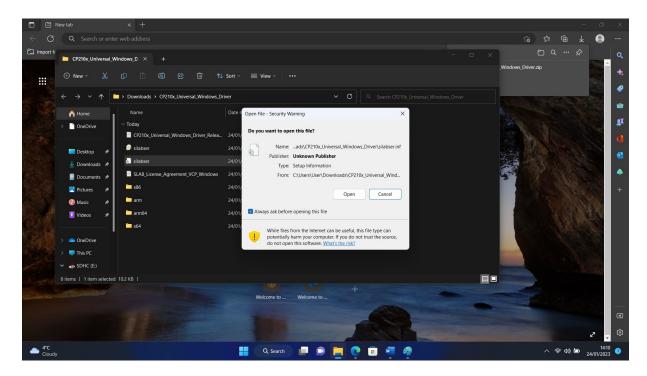


Technical Information

Click Extract The zip file will be extracted



Right Hand click silabser (Setup Information) Click Install



Click Open



Technical Information

Click Yes at the INF installer window.

\leftarrow C							6 t 🖻 🛓 🥥	
다. Import fa	ti DCP210x_Universal_N	Windows_D × +					□ ×	٩
	🕀 New - 🔏		Sort 🗸 📄 View 🤟				_Windows_Driver.zip	+
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	> OneDrive	∽ Today						£
and the second	_	CP210x_Universal_Windows_Driver_Relea	24/01/2023 14:06	Text Document	26 KB			0
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Click OK

Next plug in the USB cable between the FT-710 and the PC, you may hear a sound from the PC.

You can now check if the driver is installed.

Right hand mouse click the Start menu

Installed apps
Mobility Centre
Power Options
Event Viewer
System
Device Manager
Network Connections
Disk Management
Computer Management
Terminal
Terminal (Admin)
Task Manager
Settings
File Explorer
Search
Run
Shut down or sign out
Desktop
Q Search

Click Device Manager



Technical Information

E Device Manager	_	>
ile <u>A</u> ction <u>V</u> iew <u>H</u> elp		
HP15Laptop		
Audio inputs and outputs		
> 🤪 Batteries		
> ଃ Bluetooth		
> 👰 Cameras		
> 💻 Computer		
Disk drives		
> 🔙 Display adaptors		
> 🧮 Firmware		
> 🛺 Human Interface Devices		
> 🦏 IDE ATA/ATAPI controllers		
> 🔤 Keyboards		
> 🧾 Memory technology devices		
> III Mice and other pointing devices		
> 🛄 Monitors		
> 🖵 Network adapters		
> 📃 Portable Devices		
> 💭 Ports (COM & LPT)		
> 🚍 Print queues		
> 🔲 Processors		
If Security devices		
Software components		
> 🧧 Software devices		
> 🐗 Sound, video and game controllers		
> 🍇 Storage controllers		
🗴 🔚 System devices		

Click double click on Ports (COM & LPT)



Technical Information

Device Manager	_	×
ile <u>A</u> ction <u>V</u> iew <u>H</u> elp		
HP15Laptop		
> 💐 Audio inputs and outputs		
> 🗃 Batteries		
> 🚯 Bluetooth		
> 👰 Cameras		
> 💻 Computer		
Disk drives		
> 🔙 Display adaptors		
> 🎽 Firmware		
> 🐺 Human Interface Devices		
> 📷 IDE ATA/ATAPI controllers		
> 🔤 Keyboards		
> 🥅 Memory technology devices		
Mice and other pointing devices		
> 🛄 Monitors		
> 🚽 Network adapters		
> Portable Devices		
Ports (COM & LPT)		
Silicon Labs Dual CP2105 USB to UART Bridge: Enhanced COM Port (COM4)		
💭 Silicon Labs Dual CP2105 USB to UART Bridge: Standard COM Port (COM3)		
> 🚍 Print queues		
> Processors		
> 🛐 Security devices		
> 📑 Software components		
> Software devices		
Sound video and game controllare		

You should have two ports listed.

Silicon Labs Dual CP2105 USB to UART Bridge: Enhanced COM port (COM4) – This is for CAT control. Silicon Labs Dual CP2105 USB to UART Bridge: Standard COM port (COM3) – This is for PTT.

The exact COM port number will vary from computer to computer.



Technical Information

Device Manager	_	×
le <u>A</u> ction <u>V</u> iew <u>H</u> elp		
> 🔙 Display adaptors		
> 🎽 Firmware		
> 🛺 Human Interface Devices		
> 📹 IDE ATA/ATAPI controllers		
> 🔤 Keyboards		
> 🥅 Memory technology devices		
Mice and other pointing devices		
> 🛄 Monitors		
> 🚽 Network adapters		
> 📃 Portable Devices		
Ports (COM & LPT)		
Silicon Labs Dual CP2105 USB to UART Bridge: Enhanced COM Port (COM4)		
Silicon Labs Dual CP2105 USB to UART Bridge: Standard COM Port (COM3)		
> 🚍 Print queues		
> P Security devices		
> 📑 Software components		
> 📱 Software devices		
 Jound, video and game controllers 		
Conexant ISST Audio		
👖 Intel(R) Display Audio		
USB Audio Device		
VB-Audio VoiceMeeter AUX VAIO		
VB-Audio VoiceMeeter VAIO		
VB-Audio VoiceMeeter VAIO3		
Storage controllers		

Scroll down to Sound, video and game controllers.

You should have a device called USB Audio Device. This is used in your data modes software for transmitting and receiving audio.

Close the device manager window.

3) Prepare the FT-710 for audio, CAT Control and PTT via the USB port

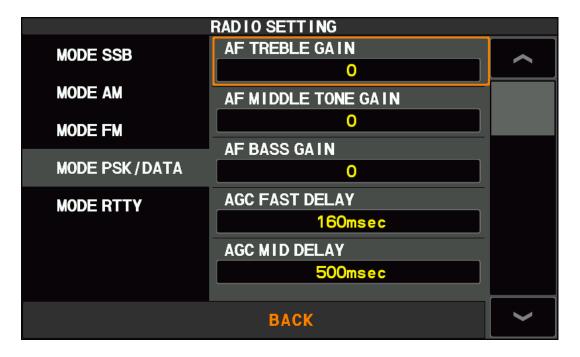
Press the [FUNC] button on the radio



Technical Information

S ₁ 3 5 PO 10	7 9 +20 ₊₄ 50 1001	0 dB VF0- +60 US 50 W	-A B VFO- LS	1.0E))5.720	
LEVEL -30.0dB	PEAK LV1	MARKER ON	COLOR 1	CONTRAST	DIMMER 5	M-GROUP
MIC GAIN 49	MIC EQ ON	PROC LEVEL OFF	AMC LEVEL	VOX GAIN <mark>50</mark>	VOX DELAY 500ms	ANTI VOX 50
RF POWER 50W	MONI LEVEL OFF	KEYER OFF	BK-IN OFF	CW SPEED 18wpm	CW PITCH 700Hz	BK-DELAY 200ms
MESSAGE	RECORD	PLAY	TXW		AESS 0%	AESS-CF 1000Hz
RADIO SETTING	CW Setting	OPERATION SETTING	DISPLAY SETTING	EXTENSION Setting	ВА	ск

Touch RADIO SETTING



Touch MODE PSK/DATA



	RADIO SETTING				
MODE SSB	TX BPF SEL				
	50-3050Hz				
MODE AM	MOD SOURCE				
MODE FM	AUTO				
	USB MOD GAIN				
MODE PSK/DATA	50				
MODE RTTY	REAR MOD GAIN				
	50				
	RPTT SELECT				
	RTS				
BACK					

Touch the down arrow until you get to RPTT SELECT Touch RPTT SELECT and rotate the FUNC knob to change the setting to RTS. Touch BACK until you are back to the main frequency screen.

4) Download and Install WSJT-X

Open your web browser and browser to

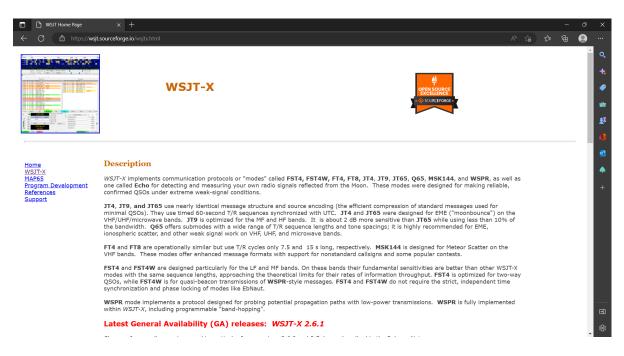
https://wsjt.sourceforge.io/

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	WSITX	WSJT Home Page		e
		by K1JT et al.		•
				£X
← C	<u>Home</u> NSJT-X	Weak Signal Communication Software		٠
Ē	<u>MAP65</u> Program Development References Support	WSJT-X and MAP65 are open-source programs designed for weak-signal digital communication by amateur radio. Normal usage requires a standard SSB transceiver and a personal computer with soundcard, or the equivalent. SDR-style hardware including the SDR-tQ. Perseus. SoftRock, and FUNcube Dongle is supported by MAP65. All of the programs are available free of charge, licensed under the GNU General Public License. Installation packages for WSJT-X are available for Windows, Linux, and OS X, and MAP65 ais Windows only. For further details about source code and operating systems, see the <u>Program Development</u> page.		
		<u>WSJT-X</u> ("Weak Signal Communication, by KJTT") offers specific digital protocols optimized for EME (moonbounce), meteor scatter, and ionospheric scatter, at VHF/UHF, as well as for LF, MF, and HF propagation. The program can decode fraction-of-a-second signals reflected from ionized meteor trails and steady signals more than 10 dB below the audible threshold. WSJT-X incorporates nearly all popular capabilities of the former programs WSJT and WSPR, while adding comprehensive rig control and many other features. Check the <u>WSJT-X</u> page and links therein for details about modes FT4, FT4, FST4, FST4, ST45, JT4, JT9, JT65, Q56, MSL+44, and WSPR.		
		MAP65 implements a wideband receiver for JT65 signals, optimized for EME on the VHF/UHF bands. It can be used together with <u>Linrad</u> (by SM5BS2) or with direct input from a soundcard or FUNcube Dongle. The program decodes all JT65 signals in a passband up to 90 kHz wide, producing a sourde band map of decoded calisigns. In a dual polarization system, MAP65 optimally matches the linear polarization angle of each signal, thereby eliminating problems with Faraday rotation and spatial polarization offsets.		
		©2001-2023 by Joe Taylor, K1JT		
		producing a sorted band map of decoded callsigns. In a dual-polarization system, MAP65 optimally matches the linear polarization angle of each signal, thereby eliminating problems with Faraday rotation and spatial polarization offsets.		

Click on WSJT-X



Technical Information



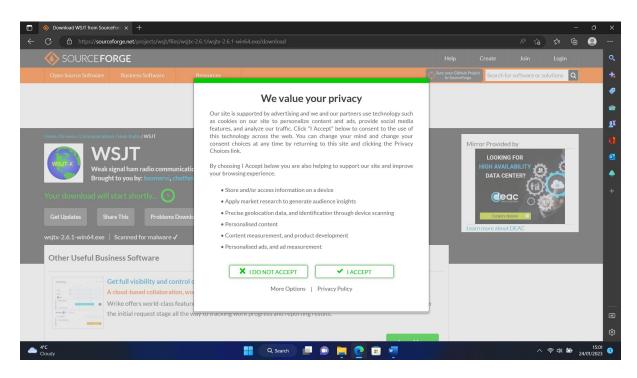
Scroll down until you see Installation packages for WSJT-X 2.6.1

Ci Ci https://wsi	Lsourceforge.io/wsjtx.html		~_	ĥ	0
	testing purposes. You should upgrade to the GA release when it becomes available. The -rc# program versions are not suitable for long-term general use.	~ 10	<i>L</i> =	Đ,	
	Installation packages for WSJT-X 2.6.1				
	Windows:				
	 Version 2.6.1, 32-bit: <u>wsjtx-2.6.1-win32.exe</u>. (Windows 7 and later) Version 2.6.1, 64-bit: <u>wsjtx-2.6.1-win64.exe</u>. (Windows 7 and later) 				
	Linux:				
	Installation instructions for Linux can be found <u>here</u> in the User Guide. Download the package file appropriate for your system, from the list below. (Versions installable with "apt-get" and "yum" will be made available as soon as our package maintainers create the packages.)				
	Version 2.6.1 Obian, Ubuntu 20.04 LTS, (64-bit): wsjtx: 2.6.1 amd64.deb Fedora 34, RedHat, (64-bit): wsjtx: 2.6.1 LX86_64.rpm Raspberry PI OS Bullseye, ARNV6, wsjtx: 2.6.1 armhf.deb Raspberry PI OS Bullseye, arRM64(64-bit): wsjtx: 2.6.1 armhf.deb				
	Note: these packages are unlikely to install properly on Linux distributions with required dependencies at lower versions than those on the nan distributions. In such cases building from source is the correct way to install WSJT-X.	ned			
	Macintosh macOS:				
	Installation instructions for version 2.6.1 can be found here in the User Guide.				
	Version 2.6.1 for macOS 10.13 through 12: <u>wsjtx-2.6.1-Darwin.dmg</u>				
	Source Code:				- 1
	WSJT-X is licensed under the terms of Version 3 of the GNU General Public License (GPL). Development of this software is a cooperative proje which many amateur radio operators have contributed. If you use our code, please have the courtesy to let us know about it. If you find bugs make improvements to the code, please report them to us in a timely fashion.				
	Build and installation instructions are in the INSTALL file inside the tarball.				- 1
	 Source code and necessary resources for WSJT-X 2.6.1: wsjtx-2.6.1.tgz 				
	©2001-2023 by Joe Taylor, K1JT				- 1

Click on the download appropriate for your computer and operating system. In this example click on Wsjtx-2.6.1-win64.exe



Technical Information



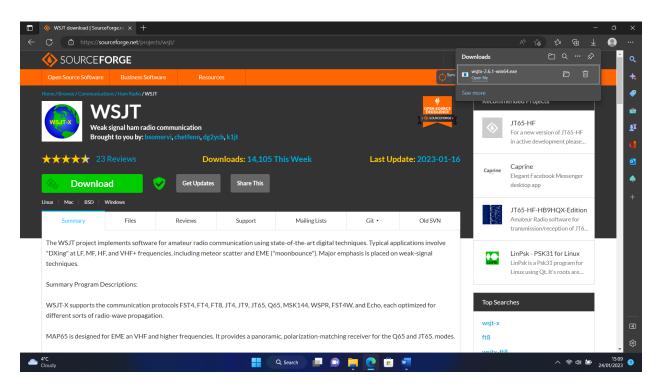
Click the privacy policy as appropriate.

After a short delay the WSJT-X software will start downloading.

♦ Find out more about WSJT Sour × +							- 0	×
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SOURCEFORGE				Downloads	Ľ (2 ··· x	>	Â,
Open Source Software Business Software	Resources			Sync skitx-2.6.1-wi	n64.exe (B of 27.0 MB, 9 mins left		-	+
Home / Browse / Communications / Ham Radio / WSJT				See more				
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Spread the Word: 🗾 🕇 ท								0
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Keep Me Updat	ted!							٠
Get WSJT updates.								+
Enter your email address								
Full name	Phone	Ext	Job Title					
Industry	Company		Company Size:	v				
I understand by clicking below I am agreeing to th understand that I can withdraw my consent at any								
Subscribe		,						
Other Useful Business Software				WSJT	Features			Ð
				• FT8 fc	or general-purpose HF DX	üng		÷



Technical Information



When the software has finished downloading. Click on wsjtx-2.6.1-win64.exe

Click on Yes



Technical Information

🔵 wsjtx 2.6.1 Setup	- 🗆 X
	Welcome to wsjtx 2.6.1 Setup
	Setup will guide you through the installation of wsjtx 2.6.1.
	It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
	Click Next to continue.
	Next > Cancel

Click Next



Technical Information

😌 wsjtx 2.6.1 Setup			—		\times					
	License Agreem Please review the		efore installing w	sjtx 2.6.1	l.					
Press Page Down to see the rest of the agreement.										
SNU GENERAL PUBLIC LI	SNU GENERAL PUBLIC LICENSE Version 3, 29 June 2007									
Copyright (C) 2007 Free	Copyright (C) 2007 Free Software Foundation, Inc.									
	Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.									
Preamble The GNU Gener other kinds of works.	al Public License is a f	ree, copyleft lic	ense for softwar	e and						
The licenses for most sof	tware and other prac	ical works are o	designed to take	away you	r					
If you accept the terms of the agreement, dick I Agree to continue. You must accept the agreement to install wsjtx 2.6.1.										
Nullsoft Install System v3.07										
		< <u>B</u> ack	I <u>A</u> gree	Can	cel					

Click I Agree



Technical Information

🔵 wsjtx 2.6.1 Setup		—		×
	Install Options Choose options for installing wsjtx 2.6.1			
By default wsjtx does i	not add its directory to the system PATH.			
-	o the system PATH stem PATH for all users stem PATH for the current user			
🗌 Create wsjtx Deskt	op Icon			
Nullsoft Install System v3.	.07	tt >	Can	cel

Click Next



Technical Information

(CRA)	Choose Insta	Il Location						
	Choose the folder in which to install wsjtx 2.6.1.							
Setup will install wsjtx 2 and select another fold	2.6.1 in the following ler. Click Next to con	folder. To install in a itinue.	a different fo	older, dick Br	owse			
Destination Folder								
Destination Folder				B <u>r</u> owse				
C:\WSJT\wsjtx	MB			Browse)			
				Browse				
C:\WSJT\wsjtx	GB			B <u>r</u> owse				

Click Next



Technical Information

6					
📀 wsjtx 2.6.1 Setup			_		×
	Choose Start I Choose a Start	Menu Folder Menu folder for the	wsjtx 2.6.1 sho	ortcuts.	
Select the Start Menu for can also enter a name to wsjtx 2.6.1			program's shor	tcuts. Yo	u
Accessibility Accessories Administrative Tools HP Help and Support Maintenance Microsoft Office Tools Music, Photos and Video Startup System Tools VB Audio Windows PowerShell	os				
Do not create shortc					
Nullsoft Install System v3.0	7				
		< <u>B</u> ack	Install	Can	cel

Click Install



Technical Information

wsjtx 2.6.1 Setup					×
O	Installing Please wait while	e wsjtx 2.6.1 is be	ing installed.		
Extract: map65.exe	67%				
Show <u>d</u> etails					
Iullsoft Install System v3.(J7				
		< <u>B</u> ack	<u>N</u> ext >	Cano	el

The software in now installing.



Technical Information

🔵 wsjtx 2.6.1 Setup			<u> </u>		×
	Installation Complete				
Completed					
Show <u>d</u> etails					
Nullsoft Install System v3.0	7				
		< Back	<u>N</u> ext >	Cano	el

Click Next



Technical Information

🔵 wsjtx 2.6.1 Setup		_		×
	Completing wsjtx 2.6.1	Setup		
	wsjtx 2.6.1 has been installed on you Click Finish to close Setup.	r computer.		
	Run wsjtx 2.6.1			
	< <u>B</u> ack Ein	ish	Cance	

Click Finish

WSJT-X should now start

5) Configuring WSJT-X



Technical Information

0	WSJT-X	v2.6.1	by k	(1JT et a	l.										_		×
File	Configu	rations	View	Mode	Decode	Save	Tools	Help									
				Band A	ctivity								Rx Frequ	lency			
	UTC	dB	DT	Freq	Me	ssage		-		UTC	dB	DT	Freq	Mes	sage		
									•								•
	CQ only	Log Q		<u>S</u> top		<u>M</u> onitor		<u>E</u> rase		Decode	-	ole Tx	<u>H</u> alt		<u>T</u> une		Menus
20	m ~		1	4.07	4 00	0	_	even/1st D0 Hz) Hold Tx Fre	5	Ge	nerate Std	l Msgs	Next	Now	Pwr
	r (Н	[DX Call	[OX Grid		•			2				\bigcirc	Tx <u>1</u>	
		FT8					Rx 15	00 Hz							\bigcirc	Tx <u>2</u>] -
	-60	FT4					Repo	rt -15 🚦							\bigcirc	Tx <u>3</u>	
	-40	MSK	<u>L</u> 00	kup	A	dd	🗸 Aut	o Seq	С	Q: None					\bigcirc	Tx <u>4</u>	
	-20	_	20) 23]	an 1) 4								~	\bigcirc	Tx <u>5</u>	- [
	-0	Q65													0	Tx <u>6</u>	- T
0	dB	лт65		15:1	5:12										-		
F	leceiving		FT8													12/15	WD:6m

Click File Click Settings



Technical Information

Settings										?	;
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Station D	etails										
My C <u>a</u> ll:			My Grid:			Aut	oGrid	IARU R	egion:	All	\sim
Message	generation f	for type 2	compound	callsig	n holders:	Full call in	Tx3				\sim
Display											
Start	new period	decodes	at top							Font	
🗌 <u>B</u> lank	c line betwee	n decodir	ng periods						Decode	ed Text For	nt
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_	v <u>D</u> XCC, grid,			status	_	principal p			of coun	try name	
U Highl	ight DX Call i	in messa	je		U Highli	ght DX Grid	l in me	essage			
Behavior											
	tor off at star	rtup			Enable VHF	and submo	ode fea	atures			
Mon <u>i</u> t	tor off at star		d frequency	_		and submo			ansmit	ting	
Mon <u>i</u> t		o last use				equency cha			ansmit	ting	
Mon <u>i</u> t Monit	tor returns to	all sets T	(enable		Allow Tx fre Single deco	equency cha	anges		ansmit	ting	
Mon <u>i</u> Monii Doub	tor returns to Il <u>e</u> -click on ca	o last use all sets T> ending 73	(enable		Allow Tx fre Single deco	equency cha de	anges		ansmit	ting	
Mon <u>i</u> Moni Doub Di <u>s</u> ab	tor returns to I <u>e</u> -click on ca Dle Tx after s	o last use all sets T> ending 73 Call 1st	(enable		Allow Tx fre Single deco	equency cha de	anges Y	while tr		ting 6 minutes	
Mon <u>i</u> Moni Doub Di <u>s</u> at Callir Alter	tor returns to Il <u>e</u> -click on ca ole Tx after s ng CQ forces	o last use all sets T> ending 73 Call 1st	(enable		Allow Tx fre Single deco	equency cha de	anges y T	while tr	ndog:	-	

Click on My Call and enter your call sign. Click on My Grid and enter you Maidenhead Locator Alter any other settings required Click on the Radio Tab



Technical Information

	porting Frequencies Colo	urs Advanced
Rig: None	V	Poll Interval: 1 s
CAT Control	PTT Method	
Serial Port: COM3 ~		
Serial Port Parameters		R <u>T</u> S
Baud Rate: 4800 V	Port: COM3	~
	Transmit Audio Source	
Data Bits	🔿 Rear/Data 🔹 🔘	<u>F</u> ront/Mic
O D <u>e</u> fault ○ Se <u>v</u> en ○ E <u>ig</u> ht		
Stop Bits	Mode	
Default On <u>e</u> T <u>w</u> o	O None ○ US <u>B</u>	◯ Data/P <u>k</u> t
Handshake	Split Operation	0 - 1 -
Default <u>N</u> one	None Rig	🔵 Fake It
○ XON/XOFF ○ <u>H</u> ardware		
Force Control Lines	Tert CAT	
DTR: V RTS: V	Test CAT	Test PTT

Click on the pulldown next to Rig:

Select Yaesu FT-710



Technical Information

Genera <u>l</u> <u>R</u> adio A <u>u</u> dio Tx <u>M</u> acros	Reporting Frequencies Colours Advanced
Rig: Yaesu FT-710	Poll Interval: 1 s
CAT Control	PTT Method
Serial Port: COM3	
Serial Port Parameters	
Baud Rate: 4800 \checkmark	Port: COM3 ~
	Transmit Audio Source
Data Bits	Rear/Data Eront/Mic
O D <u>e</u> fault ○ Se <u>v</u> en ○ E <u>i</u> ght	
Stop Bits	Mode
O Default ○ On <u>e</u> ○ T <u>w</u> o	None US <u>B</u> Data/P <u>k</u> t
Handshake	Split Operation
O Default O None	O None ○ Rig ○ Fake It
○ XON/XOFF ○ <u>H</u> ardware	
Force Control Lines	
DTR: V RTS: V	Test CAT Test PTT

Click on Serial Port: and select the Silicon Labs Dual CP2105 USB to UART Bridge: Enhanced COM port (COM4)



Technical Information

Genera <u>l</u> <u>R</u> adio A <u>u</u> dio Tx <u>M</u> acros	Reporting	Freque	ncies	Colour	s A	dvanced	
Rig: Yaesu FT-710				~ P	oll Inter	rval: 1 s	
CAT Control	PTT M	lethod –					
Serial Port: COM4 ~	0 V	0 <u>x</u>			TR		
Serial Port Parameters		<u>A</u> T			<u>T</u> S		
Baud Rate: 4800 V	Port:	COM3					~
	Transi	mit Audi	o Source				
Data Bits		ear/Data	3	OE	ront/Mi	ic	
O D <u>e</u> fault ○ Se <u>v</u> en ○ E <u>ig</u> ht	Mode						
Stop Bits	O N	one	O US	SB	\bigcirc	Data/P <u>k</u> t	
O Default ○ On <u>e</u> ○ T <u>w</u> o			0.00	<u>.</u>	0	butu, i <u>k</u> t	
Handshake	Split C)peratio	n				
O Default O None		one		9	\bigcirc	Fake It	
○ XON/XOFF ○ <u>H</u> ardware							
Force Control Lines							
DTR: V RTS: V	Т	est CAT	·		Τe	est PTT	

Set the Baud Rate to match the FT-710 baud rate settings, the default setting is 38400



Technical Information

Genera <u>l</u> <u>R</u> adio A <u>u</u> dio Tx <u>M</u> acros R	eporting Frequencies	Colours Advanced
Rig: Yaesu FT-710		✓ Poll Interval: 1 s ♣
CAT Control	PTT Method	
Serial Port: COM4	O vo <u>x</u>	◯ <u>D</u> TR
Serial Port Parameters	○ C <u>A</u> T	○ R <u>T</u> S
Baud Rate: 38400 ~	Port: COM3	~
	Transmit Audio Source	
Data Bits	🔘 Rear/Data	• <u>F</u> ront/Mic
O D <u>e</u> fault ○ Se <u>v</u> en ○ E <u>ig</u> ht	Mada	
Stop Bits	Mode	
O Default ○ On <u>e</u> ○ T <u>w</u> o	O None O U	S <u>B</u> Data/P <u>k</u> t
Handshake	Split Operation	
O Default O None	O None O R	ig 🔷 🔘 Fake It
○ XON/XOFF ○ <u>H</u> ardware		
Force Control Lines	Test CAT	Test PTT
DTR: V RTS: V		

Next set the PTT settings



Technical Information

enera <u>l R</u> adio A <u>u</u> dio Tx <u>M</u> acros R	eporting Frequencies Colours Advanced
ig: Yaesu FT-710	✓ Poll Interval: 1 s
CAT Control	PTT Method
Serial Port: COM4 V	○ VO <u>X</u> ○ <u>D</u> TR
Serial Port Parameters	○ C <u>A</u> T
Baud Rate: 38400 V	Port: COM3 ~
	Transmit Audio Source
Data Bits	Rear/Data Eront/Mic
O <u>De</u> fault ○ Se <u>v</u> en ○ E <u>ig</u> ht	Mode
Stop Bits	
O Default O One O Two	○ None ○ US <u>B</u> O Data/P <u>k</u> t
Handshake	Split Operation
O Default O None	O None ○ Rig ○ Fake It
○ XON/XOFF ○ <u>H</u> ardware	
Force Control Lines	
DTR: V RTS: V	Test CAT Test PTT

Set PTT Method to RTS Make sure the Port is set to the Silicon Labs Dual CP2105 USB to UART Bridge: Standard COM port (COM3)

Set Mode to Data/Pkt Next click on the Audio tab.



Technical Information

Genera <u>l</u>	<u>R</u> adio A <u>u</u> dio	Tx <u>M</u> acros	Reporting	Frequencies	Colours	Advanced	
Soundcar	d						
Input:					~	Mono ~	,
Ou <u>t</u> put:					~	Mono v	
Save Dire	ctory						
Loc <u>a</u> tion:	C:/Users/User/App[)ata/Local/WSJT	-X/save			S <u>e</u> lect	
AzEl Direc	tory						
Location:	C:/Users/User/App[Data/Local/WSJT	-x			Select]
Remembe	er power settings by	band					
Trans	mit		🗌 Tu	ne			



Technical Information

Click on the Input drop down menu and select Microphone (2-USB Audio Device) Click on the Output drop down menu and select Speaker (2- USB Audio Device)

The exact device name may vary on your computer.

Seneral Radio Audio Tx Macros Reporting Frequencies Colours Advanced Soundcard Input: Microphone (2- USB Audio Device) Mono Output: Speakers (2- USB Audio Device) Mono Save Directory Location: C:/Users/User/AppData/Local/WSJT-X/save Select AzEl Directory Location: C:/Users/User/AppData/Local/WSJT-X AzEl Directory Remember power settings by band Transmit Tune	Settings					?	2
Input: Microphone (2- USB Audio Device) Mono Mono Output: Speakers (2- USB Audio Device) Mono Mono Save Directory C:/Users/User/AppData/Local/WSJT-X/save Select AzEl Directory C:/Users/User/AppData/Local/WSJT-X AzEl Directory Remember power settings by band C:/Users/User/AppData/Local/WSJT-X AzEl Directory 	Genera <u>l R</u> adio A <u>u</u> dio	Tx <u>M</u> acros R	eporting	Frequencies	Colours	Advanced	
Output: Speakers (2- USB Audio Device) Mono ~ Save Directory	Soundcard						
Save Directory Location: C:/Users/User/AppData/Local/WSJT-X/save AzEl Directory Location: C:/Users/User/AppData/Local/WSJT-X Remember power settings by band	Input: Microphone (2- USB Au	udio Device)				✓ Mono ✓	·
Location: C:/Users/User/AppData/Local/WSJT-X/save Select AzEl Directory	Output: Speakers (2- USB Audi	o Device)			J	✓ Mono ✓	
AzEl Directory Location: C:/Users/User/AppData/Local/WSJT-X Remember power settings by band	Save Directory						
Location: C:/Users/User/AppData/Local/WSJT-X AzEl Directory Remember power settings by band	Location: C:/Users/User/AppDat	ta/Local/WSJT-X/	save			S <u>e</u> lect	
Location: C:/Users/User/AppData/Local/WSJT-X AzEl Directory Remember power settings by band	AzEl Directory						
Remember power settings by band		ta/Local/WSIT-X			AzEl	Directory	
Transmit Tune		nd	_				
	Transmit		U Tur	ie			

Click OK

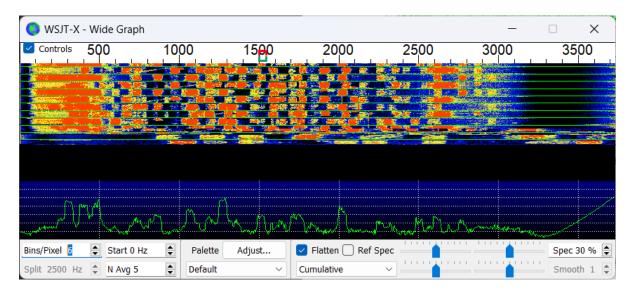
You should find the screen populating with callsigns



Technical Information

	K v2.6	5.1 by l	K1JT et a	al.												-		\times
Config	uration	s View	Mode	Dec	ode Sa	ve To	ools H	elp										
			Band /	Activi	ty								Rx Fre	equen	су			
UTC	dB	DT	Freq		Messa	.ge				UTC	dB	DT	Freq		Mes	ssage		
53400	7	0.2	1000	•				1/1/		153315	-20	-0.2	1490	~	CO	TUIGT	I JN34	
53400			1286		CQ E7					153345			1490				I JN34	
53400			2130		CQ HE					100040		0.2	1400		02	10101	II UNU	
53400	-	-0.4	379		SP2JG													
		-0.2	719		6T2EM													
53400			2347		4S7KK													
53400	-1		1109		YB2RT			-19										
53400			2556		CQ EW													
53400			1687		4S7KF													
53400		-0.1	386		CQ OM													
53400	-6	0.5	1754		CR7AX													
53400					F4FVW													
53400		-0.7	642		CQ UF													
53400		-0.2	1967	~	CQ YC	2FAJ	0142	2										
53400	-14	-0.4	2513	~	ON5LE	sv9	CAF -	-01										
53400	-14	-0.4	2513	~	ON5LE	sv9	CAF -	-01										
53400 CQ only	_	-0.4	2513			sv9 nitor		-01 ase		<u>D</u> ecode	E	<u>n</u> able Tx	Ha	alt Tx		<u>T</u> une		Men
	_	9 <u>Q</u> SO	<u>S</u> to	p	<u>M</u> or		Er	ase		_		nable Tx	<u>H</u> a	alt Tx		<u>T</u> une		Men
) CQ only	_	9 <u>Q</u> SO	<u>S</u> to	p	<u>M</u> or	nitor	Er	ase en/1st		<u>D</u> ecode) Hold Tx Fr		- -				_		
) CQ only	_	9 <u>Q</u> SO		p	<u>M</u> or	nitor	Er	ase en/1st		_	reg (- -	<u>H</u> a enerate S		sgs	<u>T</u> une Next	Now	
CQ only		<u>, o</u> so 1	<u>S</u> to	p	<u>M</u> or	nitor	Er	rase en/1st Hz €		_	reg (G			sgs	Next	Now	
) CQ only 0m ~	_	<u>, o</u> so 1	<u>s</u> to 4.07	p	<u>Mo</u> r 000	nitor	Er	ase en/1st		_	req (-	G			sgs	_		
CQ only		<u>, o</u> so 1	<u>s</u> to 4.07	p	<u>Mo</u> r 000	nitor Ta id	Er) Tx eve x 1500	ase en/1st Hz €		_	req (-	G			sgs	Next	Now	
) CQ only 0m ~	Loc Loc	<u>, o</u> so 1	<u>s</u> to 4.07	p	<u>Mo</u> r 000	nitor Ti id R) <u></u>	rase en/1st Hz ♀ Hz ♀		_	req (-	G			sgs	Next	Now Tx <u>1</u> Tx <u>2</u>	
CQ only	Loc Loc	<u>, o</u> so 1	<u>s</u> to 4.07	p	<u>Mo</u> r 000	nitor Ti id R	Er) Tx eve x 1500	rase en/1st Hz ♀ Hz ♀		_	req (-	G			sgs	Next	Now Tx <u>1</u>	
) CQ only 0m ~	Log H H FT8	<u>0</u> 50	<u>s</u> to 4.07	p	<u>Mo</u> r 000	nitor Ti id R	Er) Tx eve x 1500 x 1500 Report -	ase en/1st Hz ↓ Hz ↓ 15 ↓	_	_) Hold Tx Fi	req (-	G			sgs	Next	Now Tx <u>1</u> Tx <u>2</u> Tx <u>3</u>	
) CQ only 0m ~ - - 60 - 40	Log H H FT8	<u>0</u> 50	<u>s</u> to 4.07 DX Call	p	000 DX GI	nitor Ti id R) <u></u>	ase en/1st Hz ↓ Hz ↓ 15 ↓	_	_	req (-	G			sgs	Next	Now Tx <u>1</u> Tx <u>2</u>	
CQ only	Log H FT8 FT4 MSK	<u>2</u> 50 1 <u>L</u> or	<u>S</u> to 4.07 DX Call	р 4	Mon 000 Dx Gr Add	nitor Ti id R	Er) Tx eve x 1500 x 1500 Report -	ase en/1st Hz ↓ Hz ↓ 15 ↓	_	_) Hold Tx Fi	req (-	G			sgs	Next	Now Tx <u>1</u> Tx <u>2</u> Tx <u>3</u>	
CQ only	Log H FT8 FT4	<u>2</u> 50 1 <u>L</u> or	<u>s</u> to 4.07 DX Call	р 4	Mon 000 Dx Gr Add	nitor Ti id R	Er) Tx eve x 1500 x 1500 Report -	ase en/1st Hz ↓ Hz ↓ 15 ↓	_	_) Hold Tx Fi	req (-	G	enerate S	Std Ms	sgs	Next O O O O O O	Now Tx <u>1</u> Tx <u>2</u> Tx <u>3</u> Tx <u>4</u> Tx <u>5</u>	
CQ only	Log H FT8 FT4 MSK Q65	<u>0</u> 50 1 <u>L</u> 00 2	<u>sto</u> 4.07 DX Call okup 023	^p 24 (Jar	0000 Dx G Add	nitor Ti id R	Er) Tx eve x 1500 x 1500 Report -	ase en/1st Hz ↓ Hz ↓ 15 ↓	_	_) Hold Tx Fi	req (-	G		Std Ms	sgs	Next	Now Tx <u>1</u> Tx <u>2</u> Tx <u>3</u> Tx <u>4</u>	Men F
CQ only	Log H FT8 FT4 MSK	<u>0</u> 50 1 <u>L</u> 00 2	<u>S</u> to 4.07 DX Call	^p 24 (Jar	0000 Dx G Add	nitor Ti id R	Er) Tx eve x 1500 x 1500 Report -	ase en/1st Hz ↓ Hz ↓ 15 ↓	_	_) Hold Tx Fi	req (-	G	enerate S	Std Ms	sgs	Next O O O O O O	Now Tx <u>1</u> Tx <u>2</u> Tx <u>3</u> Tx <u>4</u> Tx <u>5</u>	

And the waterfall showing the audio spectrum



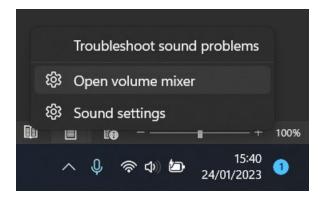


Technical Information

6) Adjust TX Levels

Before trying to transmit your will need to reduce the windows audio level for the USB AUDIO CODEC to make the power level easier to adjust

Right hand mouse click the Speaker icon near the clock



Click Open volume mixer

← Settings		- o x
User Local Account	System > Sound > Volume n	nixer
Find a setting Q	Volume	
System		
8 Bluetooth & devices	句 》) Output device	Speakers (2- USB Audio Device) \checkmark
💎 Network & internet	0	
Personalisation	ပ် Input device	Microphone (2- USB Audio Device) $$
😭 Apps	Apps	
e Accounts		
🕞 Time & language	System sounds	¢₩) 100 — • • • • • • • • • • • • • • • • • •
Gaming		
🕇 Accessibility	WSJT-X v2.6.1 by K1JT et al.	(4)) 100 ~ (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Privacy & security	Reset sound devices and volumes for all apps to the recor	nmended defaults Reset
😌 Windows Update		
	Get help☑ Give feedback	

Adjust the Volume level to approx. 10 to 20



Technical Information

This allows WSJT-X better control of the output power of the radio.

		by K1JT et al.							_		×
le Config	gurations		Decode Save	Tools Help							
		Band Ac	tivity					Rx Frequen	су		
UTC	dB	DT Freq	Message		UTC	dB	DT F	req	Message		
102010	61	0.5 2205 .	CQ ONOD	ME20	1 604.00			500			10
162315		0.1 1697 ~		OH6IH RR7	162100	1		.500 ~	YM2KA O		
162315		0.2 1540 ~		LY2EW/QRP	162200	2		.500 ~	YM2KA O		
162315	-	0.1 1617 ~		> EA5/PD2	162200	-24	0.0 1	.510 ~	UB1ANX 3	TOFDJ	-07
162315		0.1 715 ~		EB6JI RR7							
162315		0.2 2233 ~									
62315		0.0 665 ~		8XXX KN19							
162315		0.2 353 ~									
62315		-0.4 1633 ~		DE6HTG +2							
162315		1.4 1761 ~		DD4YR JN5							
162315		0.1 2129 ~		MA> MMODH							
62315		0.9 505 ~		TC100HQ>							
62315		0.0 2384 ~		EORRJ IO9							
162315		0.2 1480 ~		A2EE KM69							
162315	-17	0.1 1592 ~	S51CK E	W80M -19							
CQ only	/ Log <u>C</u>	250 <u>S</u> top	<u>M</u> onitor	<u>E</u> rase	<u>D</u> ecode	E <u>n</u> a	ble Tx	<u>H</u> alt Tx	<u>T</u> un	e 🔽	Menu
				<u>E</u> rase Tx even/1st	<u>D</u> ecode		ble Tx	<u>H</u> alt Tx	<u></u> un	e 🗸	
	/ Log <u>(</u> ⊻ ●	250 <u>s</u> top 14.074				req 📮		<u>H</u> alt Tx erate Std M		e 🗹	
.0m Г	/ Log <u>(</u> ✓ ● ●			Tx even/1st							
20m	 ● 	14.074	1 000	Tx even/1st	Hold Tx F	req 📮			sgs Next	Now	Menu P
20m 	× •	14.074 DX Call	1 000 DX Grid	Tx even/1st Tx 804 Hz €	Hold Tx F	req 📮			sgs Next	Now Tx 1	
20m	H FT8 FT4	14.074	1 000	Tx even/1st Tx 804 Hz ▲ ▼ Rx 804 Hz €	Hold Tx F	req 📮			sgs Next	Now Tx <u>1</u> Tx <u>2</u>	
20m 	H FT8 FT4 MSK	14.074 DX Call	1 000 DX Grid Add	 Tx even/1st Tx 804 Hz ▲ ▼ Rx 804 Hz Report -15 	Hold Tx F	req [1]			sgs Next	Now Tx <u>1</u> Tx <u>2</u> Tx <u>3</u>	
0m -80 ►60 -40	H FT8 FT4	14.074 DX Call	1 000 DX Grid Add an 24	 Tx even/1st Tx 804 Hz ▲ ▼ Rx 804 Hz Report -15 	Hold Tx F	req [1]		erate Std M	sgs Next	Now Tx <u>1</u> Tx <u>2</u> Tx <u>3</u> Tx <u>4</u>	

Click on a clear frequency on the waterfall display.

Reduce the PWR control to zero. This is when the slider at the bottom.



Technical Information

	V2.6	5.1 by	K1JT et a	al.									-		>
e Config	uration	s View	Mode	Decod	le Save	Tools He	elp								
			Band	Activity							Rx Frequer				
	12					_	_		15				_	_	
UTC	dB	DT	Freq	M	lessag	e		UTC	dB	DT F	req	Mes	sage		
63530	14	0.0	1744		-	D IN80	▲	163545	Τx	1	127 ~	CQ	G7AFI	!/A	
.63530	7		2407		-	C JN93									
.63530	8		2556		-	TX KO52									
.63530	13		2500			NR JO93									
.63530	20 -1	-1.5	989 2000		-	UH JO90 S55G JN6	-								
.63530	-1		2130		O HF7		5								
.63530	-9		2271		-	AIL JN45									
63530	-4	0.1		-	-	BKR KP10									
63530	-9	0.1		~ C	Q CT2	FQA IN50									
63530	0	0.4	1516	~ C	Q TK4	TH JN41									
63530	2	-0.0	1023	~ C	Q YT5	DM KN13									
.63530	-11	0.0			_										
		-0.0	1368		-	DY KN22									
.63530		-0.0	1368 345		Q LZ1 Q OM/										
					-		-								
63530	-6			~ C	-	R6LLK	-	Decode	Enal	ble Tx	Halt Tx	:	<u>T</u> une		Mer
CQ only	-6	-0.0	345	~ C	<u>M</u> onite	R6LLK or <u>E</u> ra	n/1st (Decode		_	<u>H</u> alt Tx erate Std M		<u>T</u> une Next	a 🗸	
CQ only	-6	-0.0	345 <u>S</u> to	~ C	<u>M</u> onite	R6LLK or <u>E</u> ra Tx even Tx 1127	n/1st (Gene		sgs			
CQ only	-6 Log	-0.0	345 <u>S</u> to 4.07	~ C	<u>M</u> onite	R6LLK or <u>E</u> ra Tx even Tx 1127	ase n/1st (Hz ♀		eq 📊	Gene <v01a< td=""><td>erate Std M</td><td>isgs A</td><td></td><td>Now</td><td></td></v01a<>	erate Std M	isgs A		Now	
63530 CQ only 0m <	-6 Log	-0.0	345 <u>S</u> to 4.07 DX Call	~ C	Monita Monita OO DX Grid GN37	R6LLK	nse n/1st (Hz ♀ Hz ♀		eq 📊	Gene <v01a V01AA</v01a 	erate Std M A> G7AFT/	sgs A > -10	Next	Now Tx <u>1</u>	
.63530 CQ only 0m	-6 Log H FT8 FT4	-0.0	345 <u>S</u> to 4.07 DX Call VO1AA	~ c ^{ip} 74 0	Monita Monita OO DX Grid GN37	R6LLK	ase n/1st (Hz ♀ Hz ♀ L0 ♀	Hold Tx Fr	eq 📊	Gene <v01a V01AA V01AA</v01a 	erate Std M A> G7AFT/ <g7aft a<="" td=""><td>sgs A > -10 > R-10</td><td>Next</td><td>Now Tx <u>1</u> Tx <u>2</u></td><td>Mer</td></g7aft>	sgs A > -10 > R-10	Next	Now Tx <u>1</u> Tx <u>2</u>	Mer
CQ only 0m -80 -60	-6 Log H FT8 FT4 MSK		345 <u>Sto</u> 4.07 DX Call VO1AA z: 285 okup	~ C 74 0 3701	Q OM/ Monito OO DX Grid GN37 I km Add	R6LLK	ase n/1st (Hz ♀ Hz ♀ L0 ♀	Hold Tx Fr	eq T	Gene <v01a V01AA V01AA <v01aa< td=""><td>erate Std M A> G7AFT/ <g7aft a<br=""><g7aft a<="" td=""><td> sgs A > -10 > R-10 A RRR</td><td>Next</td><td>Now Tx <u>1</u> Tx <u>2</u> Tx <u>3</u></td><td></td></g7aft></g7aft></td></v01aa<></v01a 	erate Std M A> G7AFT/ <g7aft a<br=""><g7aft a<="" td=""><td> sgs A > -10 > R-10 A RRR</td><td>Next</td><td>Now Tx <u>1</u> Tx <u>2</u> Tx <u>3</u></td><td></td></g7aft></g7aft>	sgs A > -10 > R-10 A RRR	Next	Now Tx <u>1</u> Tx <u>2</u> Tx <u>3</u>	
63530 CQ only 0m € 60 - 40 - 20 0	-6 Log H FT8 FT4 MSK Q65	-0.0 1050 1 4 Loi 2	345 <u>S</u> to 4.07 DX Call VO1AA z: 285 okup 023	^{vp} 74 0 ₃₇₀₁	Monita Monita 00 DX Grid GN37 L km Add	R6LLK	ase n/1st (Hz ♀ Hz ♀ L0 ♀	Hold Tx Fr	eq T	Gene <v01a V01AA V01AA <v01aa< td=""><td>erate Std M A> G7AFT/A <g7aft a<br=""><g7aft a<br="">A> G7AFT/ A> G7AFT/</g7aft></g7aft></td><td> sgs A > -10 > R-10 A RRR</td><td>Next</td><td>Now Tx <u>1</u> Tx <u>2</u> Tx <u>3</u> Tx <u>4</u></td><td></td></v01aa<></v01a 	erate Std M A> G7AFT/A <g7aft a<br=""><g7aft a<br="">A> G7AFT/ A> G7AFT/</g7aft></g7aft>	sgs A > -10 > R-10 A RRR	Next	Now Tx <u>1</u> Tx <u>2</u> Tx <u>3</u> Tx <u>4</u>	
63530 CQ only 0m € 80 € 60 -40 -20	-6 Log H FT8 FT4 MSK	-0.0 1050 1 4 Loi 2	345 <u>Sto</u> 4.07 DX Call VO1AA z: 285 okup	^{vp} 74 0 ₃₇₀₁	Monita Monita 00 DX Grid GN37 L km Add	R6LLK	ase n/1st (Hz ♀ Hz ♀ L0 ♀	Hold Tx Fr	eq T	Gene <v01a V01AA V01AA <v01a <v01a< td=""><td>erate Std M A> G7AFT/A <g7aft a<br=""><g7aft a<br="">A> G7AFT/ A> G7AFT/</g7aft></g7aft></td><td> sgs A > -10 > R-10 A RRR</td><td>Next</td><td>Now Tx<u>1</u> Tx<u>2</u> Tx<u>3</u> Tx<u>4</u> Tx<u>5</u></td><td></td></v01a<></v01a </v01a 	erate Std M A> G7AFT/A <g7aft a<br=""><g7aft a<br="">A> G7AFT/ A> G7AFT/</g7aft></g7aft>	sgs A > -10 > R-10 A RRR	Next	Now Tx <u>1</u> Tx <u>2</u> Tx <u>3</u> Tx <u>4</u> Tx <u>5</u>	

Click on Enable TX

The radio should go into Transmit in the correct FT8 TX cycle.

TIP It can be helpful to enable the TX Monitor

Press [FUNC]

Touch MONI LEVEL

Adjust the monitor level by rotating the FUNC knob.

Adjust the PWR control until you are producing the correct output power approx. 10 - 20 watts.

Click on Enable TX The radio should go back into receive mode.

You should now be ready to make FT8 QSO's with your Yaesu FT-710 and WSJT-X.