

# MI3 Instructions

Your ADX MI3 has been thoroughly tested on AIR with valid QSO'S and has been workshop calibrated. You do not need to do any terminal command and this information is only provided in case you need to re calibrate it again. **(The ADXMI3 IS SHIPPED FULLY CALIBRATED AND NO NEED TO DO THIS STEP.)**

**Note : DO NOT EXCEED DC SUPPLY INPUT GREATER THAN 13Volts.**

Open terminal program such as PUTTY and find the com port (WINDOWS DEVICE MANAGER) and connect at 115200 baud.

- Baud rate shown is of prototype. please disregard.

ONCE YOU ESTABLISH THE CONNECTION

Type II; (Semicolon is required to complete the command)

The ADXMI3 should respond with the parameters.

```
MI3 57600
Jul 18 2024

baud = 57600
band = 20M
freq = 14074000
mode = FT8
cal_data = 66150
```

To display all the commands

Type HH;

```
MI3 57600
Jul 18 2024

baud = 57600
band = 20M
freq = 14074000
mode = FT8
cal_data = 64000

HE => print help
HH => print help
DD => debug on/off
II => print info
FR => factory reset
SR => soft reset
CM => calibration mode

IF G - radio status
ID G - radio ID
FA G S frequency
AI G S auto-information
MD G S radio mode
PS G S power-on status
XT G S XIT status
TX - S transmit
RX - S receive
```

To perform a calibration - Use the + or - to calibrate the frequency , = to stop and . to save.  
Connect scope or freq meter to cal clk2 on the adx.  
Calibrate it to exactly 1Mhz

Type CM;

```
Calibration Mode
press + to increase cal frequency
press - to decrease cal frequency
press = to stop
press . to save and exit
press \ to exit without saving
```

Disconnect the terminal connection and exit the app.

For Windows Users (Windows 7,8,10,11)



Download the Digital mode radio software WSJT-X.

You can download it from this link.

<https://wsjt.sourceforge.io/wsjtx.html>

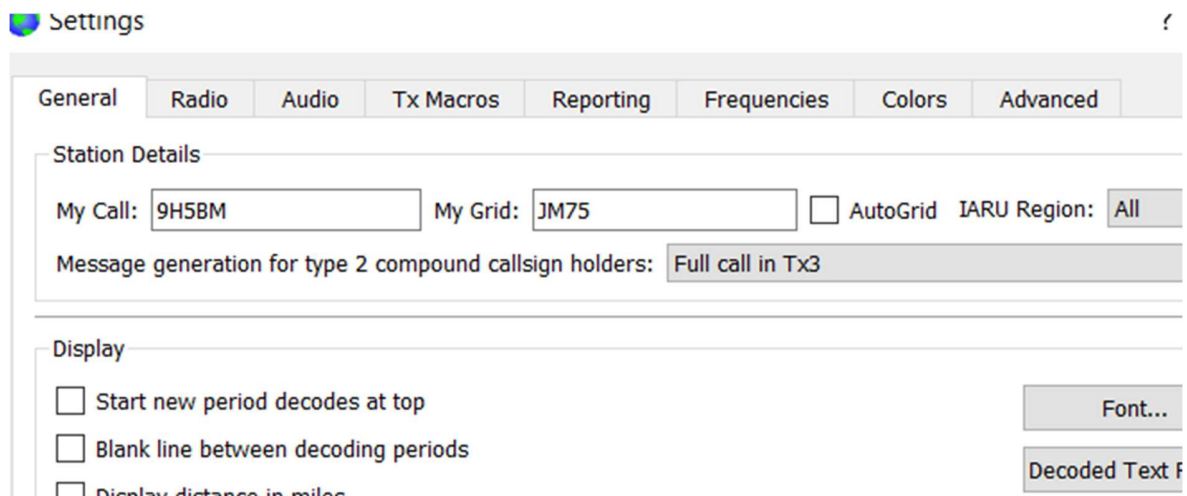
Install the software and proceed to configure it.

Open the app and a pop up will ask you to configure your setup.



Click ok

Under general insert your callsign and your grid locator



Settings

General Radio Audio Tx Macros Reporting Frequencies Colors Advanced

Station Details

My Call: 9H5BM My Grid: JM75 ☐ AutoGrid IARU Region: All

Message generation for type 2 compound callsign holders: Full call in Tx3

Display

☐ Start new period decodes at top ☐ Blank line between decoding periods ☐ Display distance in miles

Font... Decoded Text F

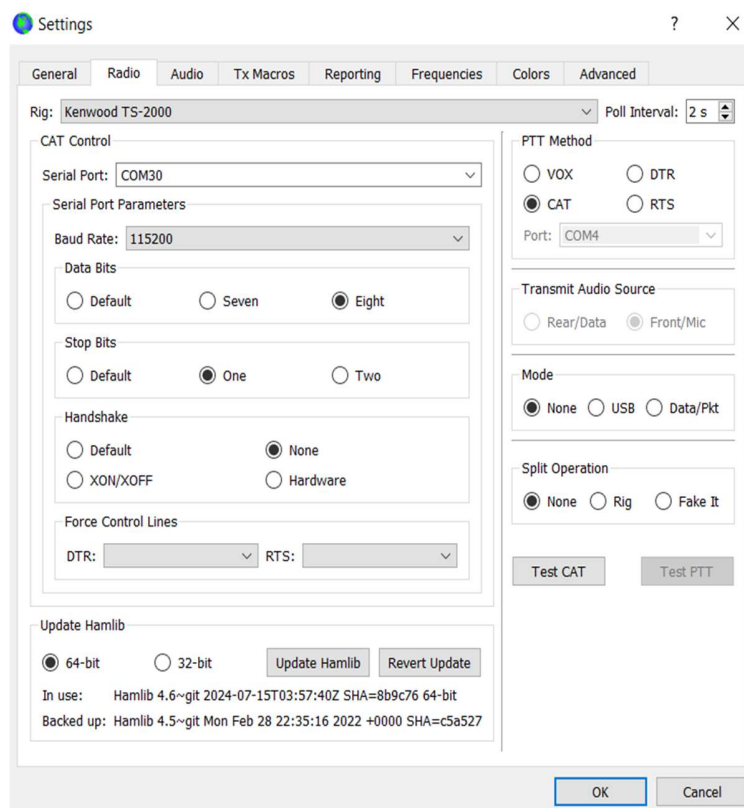
Under Radio Tab

Select your com port.

Radio selects **Kenwood TS2000** & your com port with baud rate 115200

**PTT Method** set as **CAT** mode.

Click the **Test CAT** and should turn green. Indicating that there is communication and all is well.



Settings

General Radio Audio Tx Macros Reporting Frequencies Colors Advanced

Rig: Kenwood TS-2000 Poll Interval: 2 s

CAT Control

Serial Port: COM30

Serial Port Parameters

Baud Rate: 115200

Data Bits

☐ Default ☐ Seven ☒ Eight

Stop Bits

☐ Default ☒ One ☐ Two

Handshake

☐ Default ☒ None ☐ XON/XOFF ☐ Hardware

Force Control Lines

DTR: RTS:

Update Hamlib

☒ 64-bit ☐ 32-bit Update Hamlib Revert Update

In use: Hamlib 4.6~git 2024-07-15T03:57:40Z SHA=8b9c76 64-bit

Backed up: Hamlib 4.5~git Mon Feb 28 22:35:16 2022 +0000 SHA=c5a527

PTT Method

☐ VOX ☐ DTR ☒ CAT ☐ RTS

Port: COM4

Transmit Audio Source

☐ Rear/Data ☒ Front/Mic

Mode

☒ None ☐ USB ☐ Data/Pkt

Split Operation

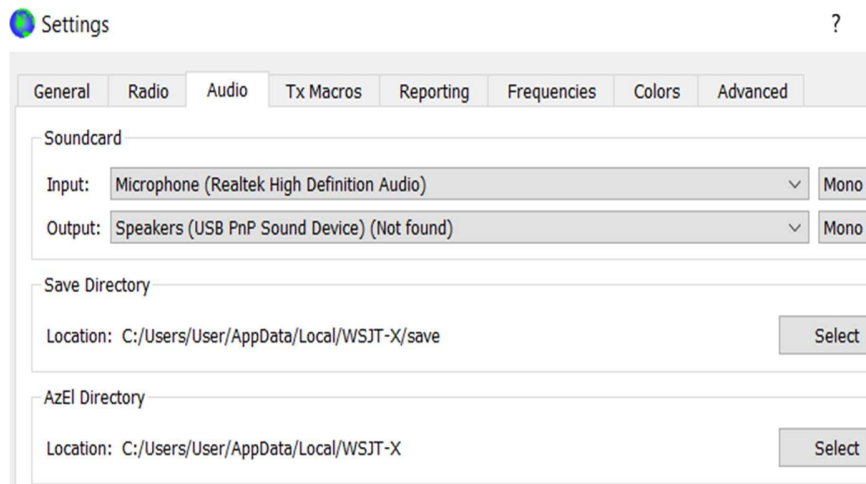
☒ None ☐ Rig ☐ Fake It

Test CAT Test PTT

OK Cancel

Under Audio TAB

Select the USB-X USB SOUNDCARD CM108 device under Input and output - match the device X accordingly. Usually Its usb-X where x is the usb number etc.



Next is to sync your pc clock.

Download a time app like nettime

[NetTime - Network Time Synchronization Tool](https://www.nettime.org/)  
([timesynctool.com](https://timesynctool.com/))

Install it and run it to sync your clock.

Now you are set to start using your ADX MI3 with wsjtx application.

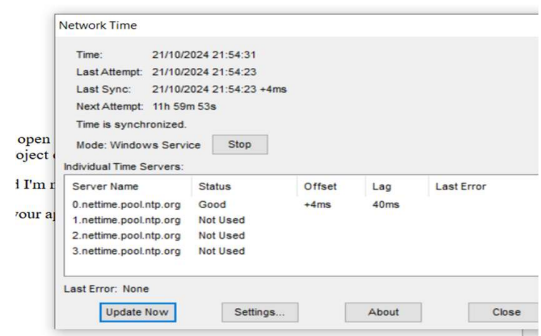
Select the mode FT8 OR FT4 or JS8 or WSPR

You should start seeing the traffic.

## NetTime

ows 95/98/Me/NT/2000/XP/Vista/7/8/10/11 and Server 2003/2008/2012/2016/2019  
[time]

e just found it!



## Android Users

Minimum android version to use this app is 6.0.

Download the android app FT8CN

<https://github.com/N0BOY/FT8CN/releases>

Install the app and launch it.

Enter your callsign and grid locator.

A new window will pop up asking you to allow recording.

## Comms Setup

Select CAT

Select USB

Baud rate : 115200

Rig : TS2000 Kenwood.

For further details please refer to the user guide **FT8CN Quick Guide v0.89.pdf**

Settings

Callsign Please enter CQ Modifier ADFG

Grid square Please enter M

Audio freq 1000 Tx/Rx Split

Tx delay 500

Time offset -0.5 Secs SYNC TIME

PTT delay 100 ms

Allow FT8CN to record audio?

WHILE USING THE APP

ONLY THIS TIME

DENY

Control VOX CAT RTS DTR

Connection type USB Bluetooth Network

CI-V 70 Baud rate 19200

Rig ICOM IC-7000

Linux Users

Download wsjtx for linux

Launch the application  
WSJT-X and go to file -  
> Settings.

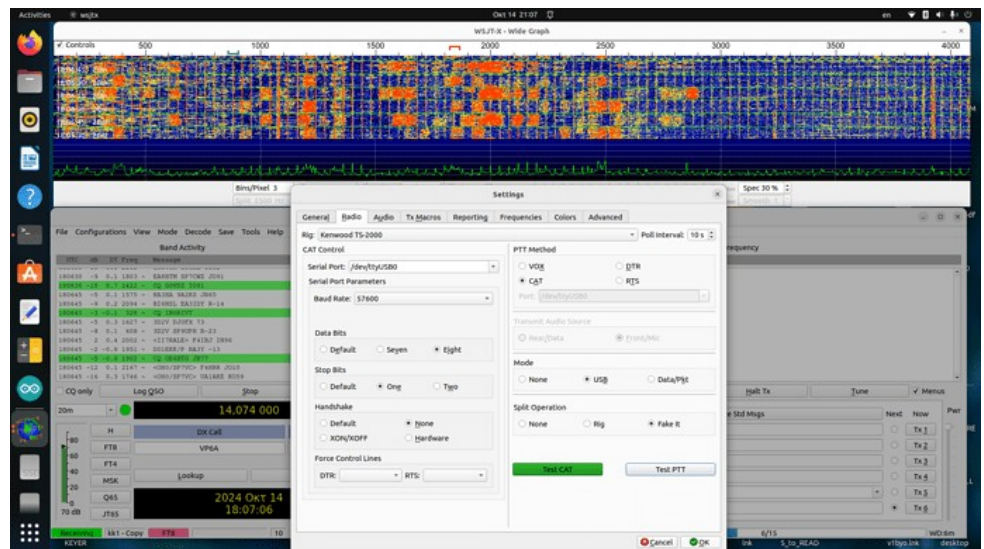
### Radio:

Configure as in the  
picture.

Rig : TS2000

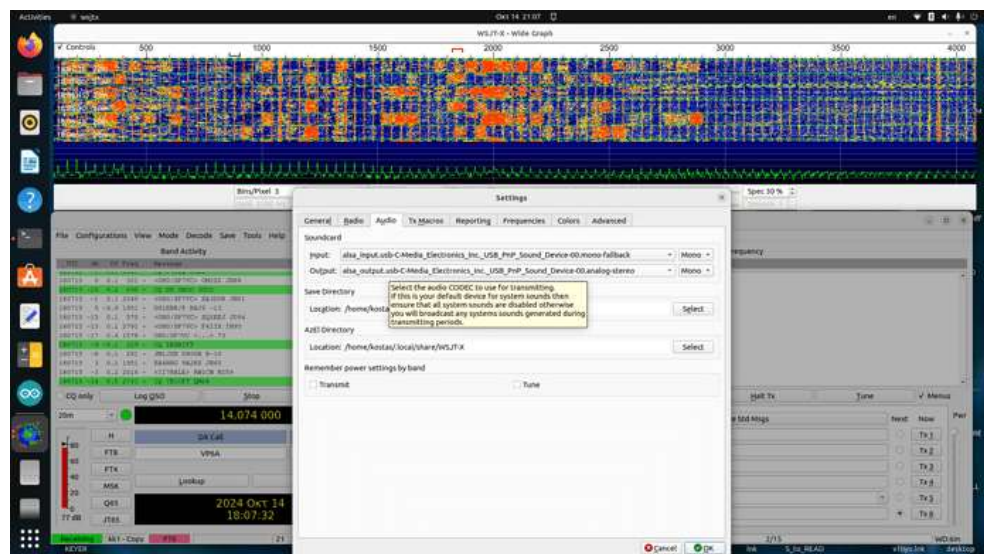
Baud rate : 115200

PTT Method : CAT



### Audio:

Set the audio device  
with the alsa device.



### TX- SETUP

ADXMI3 has a built-in feature that detects which filter is installed. Make sure you are on the correct band and the right filter is installed. Failing not to follow this rule the adx won't transmit.

### Transmit and antenna setup.

Please make sure you tune your antenna and that you have a low SWR 1:1 preferably or use an ATU to tune your antenna in series with the adx.

That's all - enjoy your digital qso's

JasonKits