

FT8 on Windows 11

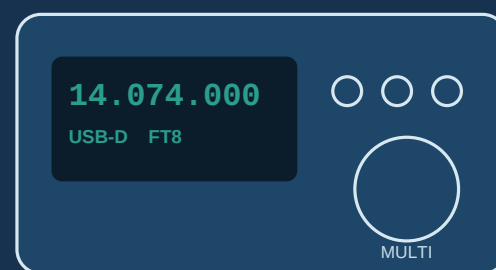
Icom IC-7300 setup with WSJT-X 3.x, PSK Reporter, and GridTracker

A complete installation, radio configuration, test, update, and troubleshooting procedure

15-second FT8 signal periods



One USB cable carries CAT, PTT, receive audio, and transmit audio.



Designed for:

Original Icom IC-7300
64-bit Windows 11 PC
One USB A-to-B data cable

Includes:

Official download links
Windows preparation
Receive and transmit tests
PSK Reporter and GridTracker

Edition date: July 17, 2026

Use the always-current release links in this guide to check for newer software before installing.

About this guide

This procedure configures the **original Icom IC-7300** for FT8 on a 64-bit Windows 11 computer. One USB A-to-B data cable carries radio control, PTT, receive audio, and transmit audio. No separate sound-card interface is required.

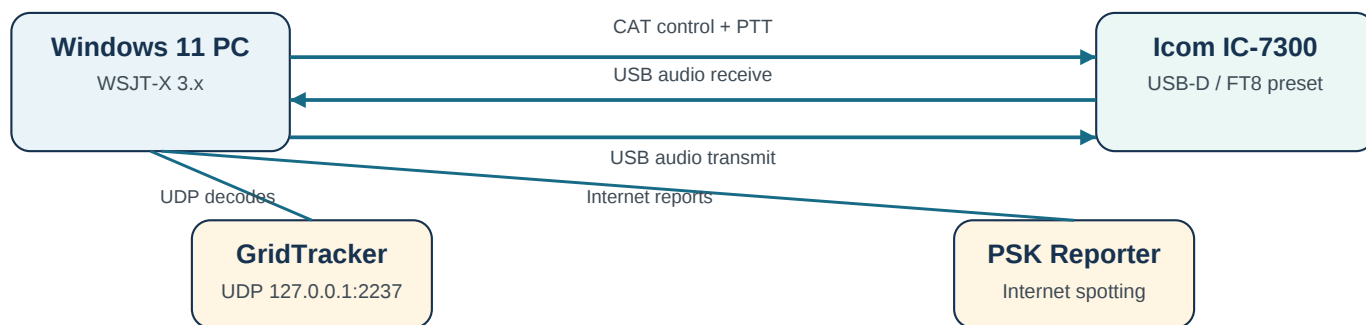
Interpretation of 'FT8 3'

This guide treats 'FT8 3' as **WSJT-X 3.x**. The version references used here are current as of July 17, 2026: WSJT-X 3.0.2, original IC-7300 firmware 1.42, and GridTracker 2.260705. Always verify the latest release before downloading.

Important radio-model warning

Do not install original IC-7300 firmware on an IC-7300MK2. Confirm the exact model name on the radio before updating firmware.

Connection and data-flow overview



WSJT-X controls the radio through the IC-7300 USB serial port and exchanges audio through the radio's USB Audio CODEC. WSJT-X sends decoded information to GridTracker by UDP and sends received reports to PSK Reporter through the Internet.

Operating and safety notes

- Transmit only within your amateur-radio license privileges and the applicable band plan.
- Use a dummy load, or a suitable antenna with acceptable SWR, for the first transmit test.
- Begin at 5 watts. FT8 is a high-duty-cycle mode; watch radio temperature and amplifier ratings.
- Do not use heavy audio drive or ALC to obtain more power. Clean audio is more important than maximum meter indication.

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How to use this document

Complete Parts 1 through 7 in order. Then perform the receive test before attempting the transmit test. The troubleshooting table near the end is organized by symptom.

Official download links

Use only official project, manufacturer, and Microsoft sites. Direct installer links are included for convenience; the always-current pages are included so you can verify whether a newer release is available.

Required software

Item	Version / purpose	Official link
Icom USB driver	Version 1.30	Official Icom driver page
Icom Windows 11 instructions	Driver installation guide	Official Icom Windows 11 guide
WSJT-X	3.0.2, Windows 64-bit	Direct WSJT-X 3.0.2 installer Always-current WSJT-X release page
GridTracker	2.260705.2 Windows setup	Direct GridTracker installer Always-current GridTracker downloads
PSK Reporter	No separate program required	Open the PSK Reporter map

Recommended references and optional software

Reference	Purpose	Official link
IC-7300 firmware	Original IC-7300 firmware 1.42	Icom firmware page
IC-7300 manual	Full operating manual	Icom full manual
WSJT-X documentation	Official user guide	WSJT-X user guide
GridTracker documentation	WSJT-X integration	GridTracker configuration guide
PSK Reporter information	Service description and map	PSK Reporter home page
Precision time	Optional Meinberg NTP	Meinberg NTP for Windows
Windows Update	Microsoft instructions	Install Windows updates
Windows time	Microsoft instructions	Set time, date, and time zone

Download-security rule

Do not use third-party driver sites. Do not disable Windows Defender or the firewall. If SmartScreen warns about an installer, verify that the file came from the official link before selecting More info and Run anyway.

Part 1 - Pre-installation checklist

Gather the station information and hardware before installing software.

1. Confirm that the radio is the **original Icom IC-7300**, not the IC-7300MK2.
2. Write down your amateur-radio callsign and six-character Maidenhead grid, such as EN52ab.
3. Identify your IARU region. North and South America normally use **Region 2**.
4. Obtain a good-quality, short, shielded **USB A-to-B data cable**. Ferrite chokes at one or both ends are helpful.
5. Connect the radio to a suitable 13.8-volt power supply and a resonant antenna, or preferably a dummy load for the initial transmit test.
6. Have an SD card available if the radio firmware will be updated.

7. Close Ham Radio Deluxe, N3FJP, FLRig, OmniRig, rig-control utilities, and any other program that could use the IC-7300 COM port.
8. Leave the IC-7300 USB cable **disconnected** until the official Icom USB driver has been installed.
9. Plan to connect the cable directly to the PC rather than through an unpowered hub. Use the same USB socket in the future to help preserve the COM-port number.

Recommended first-test conditions

Use a dummy load where possible, set the radio to 5 W, and place the IC-7300 meter on ALC. This makes it easy to verify keying and audio drive without creating avoidable interference.

Part 2 - Update and prepare Windows 11

Step 1 - Install Windows updates

1. Open **Start -> Settings -> Windows Update**.
2. Select **Check for updates**.
3. Install available security, quality, and supported feature updates.
4. Restart when requested.
5. Return to Windows Update and check again. Repeat until no update or restart remains pending.

Microsoft reference: [Install Windows updates](#)

Step 2 - Set accurate computer time

FT8 uses synchronized 15-second periods. A clock error can prevent decoding and completed contacts.

1. Open **Start -> Settings -> Time & language -> Date & time**.
2. Turn on **Set time automatically**.
3. Verify the time zone. Turn on automatic daylight-saving adjustment where applicable.
4. Under Additional settings, select **Sync now**.
5. Repeat Sync now immediately before the first FT8 test.

Clock-quality check

After WSJT-X starts decoding, examine the DT column. Most ordinary FT8 stations should cluster reasonably close to 0.0. If nearly all stations are offset in the same direction by about half a second or more, correct the PC clock before transmitting. Install Meinberg NTP only if Windows time does not remain accurate.

Step 3 - Prevent sleep during operation

1. Open **Settings -> System -> Power & battery -> Screen and sleep**.
2. Prevent the computer from entering sleep while plugged in during monitoring or operating.
3. The display may turn off; the computer itself must remain awake for decoding and reporting.

Step 4 - Permit desktop microphone access

1. Open **Settings -> Privacy & security -> Microphone**.

2. Turn on **Microphone access**.
3. Turn on **Let desktop apps access your microphone**.

Windows treats the radio's receive audio device as a microphone input.

Part 3 - Update the IC-7300 firmware if needed

Firmware 1.40 introduced the IC-7300 one-touch FT8 preset. The original IC-7300 firmware version referenced by this guide is 1.42. If Main CPU already shows 1.42, skip the update.

Step 1 - Check the installed firmware

1. On the radio, open **MENU -> SET -> Others -> Information -> Version**.
2. Read the **Main CPU** version.

Installed version	Action
1.42	No update is needed.
1.40 or 1.41	The FT8 preset is already present; updating to 1.42 is recommended.
1.30 or earlier	Update to 1.42 to obtain the FT8 preset and later corrections.

Step 2 - Back up the radio

1. Insert an SD card that has been formatted by the IC-7300.
2. Open the radio's **SD CARD** screen.
3. Select **Save Setting**.
4. Select **New File**, accept or enter a filename, and save the settings.

Step 3 - Install firmware 1.42

1. Download the [official IC-7300 firmware package](#).
2. Accept Icom's terms and unzip the downloaded package on the PC.
3. Copy 7300_142.dat into the IC-7300 folder on the SD card.
4. Safely eject the card from Windows and insert it in the radio.
5. Open the radio's **SD CARD** screen and select **Firmware Update**.
6. Read and accept all warnings, then select the firmware file.
7. Touch and hold **Yes** for approximately one second to begin.
8. Do not turn off the radio, disconnect the power supply, or remove the SD card during the update.
9. Allow the radio to restart automatically. Confirm that Main CPU now shows **1.42**.
10. If settings were reset, use **SD CARD -> Load Setting** to restore the backup.

Firmware update warning

A power interruption during firmware writing can damage the radio. Use a stable power supply and do not begin an update during a storm or other condition that could interrupt power.

Part 4 - Install the IC-7300 USB driver

Step 1 - Install the driver before connecting the radio

1. Turn the IC-7300 off and disconnect its USB cable from the computer.
2. Download the [official Icom USB driver version 1.30](#).
3. Unzip the downloaded file and open the extracted folder.
4. Run the driver installer as administrator and follow the prompts.
5. Restart Windows after installation.
6. After Windows restarts, connect the USB cable directly between the PC and the IC-7300.
7. Turn the radio on and allow Windows a minute to configure the devices.

Icom Windows 11 reference: [USB-driver installation guide](#)

Step 2 - Identify the COM port

1. Right-click **Start** and select **Device Manager**.
2. Expand **Ports (COM & LPT)**.
3. Find an entry similar to Silicon Labs CP210x USB to UART Bridge (COM5).
4. Write down the COM number. The example above is COM5.

COM-port stability

Use the same physical USB port in the future. Moving the radio cable to another port can cause Windows to assign a different COM number, which then must be updated in WSJT-X.

Step 3 - Verify the USB audio devices

Open **Settings -> System -> Sound**. You should see devices similar to:

- Input: Microphone (USB Audio CODEC)
- Output: Speakers (USB Audio CODEC)

If several USB audio devices are present, turn the IC-7300 off and on to identify which devices disappear and return.

Step 4 - Set the radio audio devices to 48 kHz

1. Open **Settings -> System -> Sound -> More sound settings**.
2. On the Playback tab, select **Speakers (USB Audio CODEC)**, then **Properties -> Advanced**.
3. Choose **16 bit, 48000 Hz**, sometimes shown as DVD Quality. Disable audio enhancements.
4. On the Recording tab, select **Microphone (USB Audio CODEC)**, then **Properties -> Advanced**.
5. Choose **16 bit, 48000 Hz** and disable audio enhancements.
6. Set both device levels to approximately 50 percent as an initial value.
7. Do not enable **Listen to this device**.

Step 5 - Prevent Windows sounds from being transmitted

Do **not** make Speakers (USB Audio CODEC) the Windows default playback device. Keep the PC's normal speakers or headset as the default. Otherwise notifications, videos, browser audio, or system sounds could be sent to the radio.

Part 5 - Configure the IC-7300 for FT8

Preferred method - Use the radio's FT8 preset

1. Turn the radio on.
2. Open **MENU -> PRESET**.
3. Select **FT8**.
4. Confirm that the radio shows **USB-D**.
5. Set RF output power initially to **5 W**.
6. Set the meter to display **ALC** for the transmit test.

Verify the important radio settings

IC-7300 setting	Recommended value
Operating mode	USB-D
DATA modulation input	USB
CI-V USB baud rate	19200
CI-V USB port	Unlink from [REMOTE]
CI-V address	Default 94h; do not change
USB AF output level	Start at 50%
USB modulation level	Start at 50%
Receive filter	Widest practical setting, approximately 3 kHz or wider
Speech compressor	Off
Noise blanker	Off
Noise reduction	Off initially
Notch filter	Off
Twin PBT	Centered
Squelch	Fully open
RF power	Start at 5 W

Use AGC Fast or turn AGC off if desired. When very strong signals make the receive-level meter jump, reduce RF gain rather than allowing the receiver to overload.

Part 6 - Install and configure WSJT-X 3.0.2

Step 1 - Install WSJT-X

1. Download [WSJT-X 3.0.2 for 64-bit Windows](#).

2. Verify that the filename is `wsjtx-3.0.2-win64.exe`.
3. Run the installer. If Windows displays an Unknown publisher warning, confirm that the file came from the official WSJTX GitHub release before continuing.
4. Use the suggested WSJT-X directory, or a dedicated directory such as `C:\WSJT-X`.
5. Allow WSJT-X through the firewall for **Private networks** when prompted.
6. Start WSJT-X.

Step 2 - General settings

Open **File -> Settings -> General** and enter:

Setting	Value
My Call	Your callsign
My Grid	Your six-character grid
IARU Region	Region 2 for the Americas
Double-click on call sets Tx enable	Checked
Disable Tx after sending 73	Checked

A six-character grid improves GridTracker map placement and PSK Reporter accuracy.

Step 3 - Radio settings

Open **File -> Settings -> Radio** and enter:

WSJT-X radio setting	Value
Rig	Icom IC-7300
Serial Port	The COM port shown in Device Manager
Baud Rate	19200
Data Bits	Eight
Stop Bits	One
Handshake	None
Force DTR	Leave unchecked / None
Force RTS	Leave unchecked / None
Poll Interval	1 s
PTT Method	CAT
Transmit Audio Source	Rear/Data, if enabled
Mode	Data/Pkt
Split Operation	Fake It

Test CAT

1. Select **Test CAT**.
2. The button should turn green.
3. If it turns red, correct the COM port or baud rate before continuing.

Test PTT

1. Connect a dummy load or suitable antenna and set the radio to 5 W.
2. Select **Test PTT** briefly and confirm that the radio enters transmit.
3. Turn Test PTT off immediately.

The radio may key without RF output because no transmit tone is being generated. That is normal.

Step 4 - Audio settings

Open **File -> Settings -> Audio**.

WSJT-X audio setting	Device	Direction
Input	Microphone (USB Audio CODEC)	IC-7300 receive audio into WSJT-X
Output	Speakers (USB Audio CODEC)	WSJT-X transmit audio into the IC-7300

Common audio-selection mistake

Do not select the computer's built-in microphone or ordinary desktop speakers. Input is the radio's receive stream; Output is the signal sent to the radio for transmission.

Step 5 - PSK Reporter and GridTracker settings

Open **File -> Settings -> Reporting**. Check:

- ☐ Enable PSK Reporter Spotting
- ☐ Prompt me to log QSO
- ☐ Clear DX call and grid after logging
- ☐ Accept UDP requests

Network setting	Value
UDP Server	127.0.0.1
UDP Server port number	2237
Outgoing interfaces	Leave at default
Multicast	Off / not used when both programs are on the same PC

PSK Reporter spotting sends received standard FT8 messages to the reporting service. The UDP server passes decodes and program status to GridTracker.

Step 6 - Add antenna information for PSK Reporter

1. Open **File -> Settings -> Frequencies**.
2. In Station Information, enter the antenna description for each band you use.
3. Examples include 40m dipole, End-fed wire, Vertical, or Yagi.
4. Select **OK** to save all WSJT-X settings.

WSJT-X settings at a glance

Area	Required value
Rig / CAT	Icom IC-7300; COM port from Device Manager; 19200 baud
PTT	CAT
Mode / split	Data/Pkt; Fake It
Audio input	Microphone (USB Audio CODEC)
Audio output	Speakers (USB Audio CODEC)
UDP	Accept requests; 127.0.0.1; port 2237
Reporting	Enable PSK Reporter Spotting

Part 7 - Install and configure GridTracker

Step 1 - Install GridTracker

1. Download the [GridTracker Windows installer](#).
2. If it will not start, right-click the downloaded file, select **Properties**, check **Unblock** if shown, then select Apply.
3. Run the installer and start GridTracker.
4. Allow GridTracker through the Windows firewall on **Private networks**.

Step 2 - Match the WSJT-X network settings

1. In GridTracker, select the **gear** button and open General settings.
2. Select WSJT-X as the application or source.
3. Set the receive address to 127.0.0.1.
4. Set the port to 2237.
5. Turn multicast off.
6. Save the settings, close both programs, then start WSJT-X first and GridTracker second.

Expected status

GridTracker's application status should show a WSJT-X source at 127.0.0.1/2237. When WSJT-X is sending data, GridTracker should indicate RECEIVE.

Step 3 - Configure GridTracker alert audio safely

If GridTracker audio alerts are enabled, select the computer's ordinary speaker or headset. Do not select Speakers (USB Audio CODEC), because alert sounds could be transmitted when the radio is keyed.

Part 8 - Perform the first receive test

1. Turn on the IC-7300 and select **MENU -> PRESET -> FT8**.
2. Start WSJT-X, then start GridTracker.
3. In WSJT-X, select **FT8** as the mode.
4. Select an active band. WSJT-X should load the conventional FT8 dial frequency from its frequency table.

5. Select **Monitor**. The Monitor button should turn green.
6. Open the WSJT-X waterfall and wait through several 15-second periods.

Expected receive results

- [] Vertical FT8 signal traces appear in the waterfall.
- [] Decoded messages appear in Band Activity.
- [] Callsigns and grids appear in GridTracker.
- [] GridTracker indicates RECEIVE.

Set the receive level

With no strong signal present, adjust one or more of:

- IC-7300 USB AF Output Level.
- Windows recording level for Microphone (USB Audio CODEC).
- Radio RF gain.

Receive-level target

Aim for approximately 30 dB on the WSJT-X receive-level meter when the band contains background noise but no strong signal. Avoid a level near zero and avoid continuously pegging the meter. If strong stations cause AGC pumping, lower RF gain or disable unnecessary preamplification.

Part 9 - Verify PSK Reporter

No separate PSK Reporter application is installed. Reporting is built into WSJT-X.

1. Leave WSJT-X monitoring FT8 with **Enable PSK Reporter Spotting** checked.
2. Receive for several minutes.
3. Open the [PSK Reporter map](#).
4. Enter your callsign.
5. Choose the display for signals **received by** your callsign.
6. Select FT8 and an appropriate time period.
7. Confirm that reception reports from your station appear.

After transmitting, use the map's signals-sent-by option to see which reporting stations heard you.

Reporting behavior

PSK Reporter normally reports standard FT8 messages containing callsigns and locators. Nonstandard free-text messages generally do not create useful reports.

Part 10 - Perform the initial transmit and audio-level test

Use a dummy load when possible

The first test should be brief, at 5 W, with the meter on ALC. Stop immediately if SWR is high, the USB connection drops, or the radio behaves unexpectedly.

Step 1 - Prepare the station

1. Confirm that the antenna or dummy load is connected and that SWR is acceptable.
2. Set radio power to **5 W** and select the **ALC** meter.
3. Confirm that the radio is in USB-D and the speech compressor is off.
4. Confirm that WSJT-X Output is Speakers (USB Audio CODEC) and PTT Method is CAT.

Step 2 - Generate a test tone

1. In WSJT-X, move the **Pwr** slider down from maximum.
2. Select **Tune**.
3. Confirm that the radio enters transmit and produces a steady RF output.
4. Slowly raise or lower the WSJT-X Pwr slider.
5. Set the level for the desired RF output with no ALC, or at most a barely perceptible indication.
6. Select Tune again, or select **Halt Tx**, to stop transmitting.

If significant ALC appears, reduce the WSJT-X Pwr slider first. If needed, reduce the IC-7300 USB modulation level. Do not compensate for weak output by driving the audio into heavy ALC.

Step 3 - Make an FT8 contact

1. Select an appropriate decoded station in Band Activity.
2. Confirm the correct even or odd transmit period.
3. Double-click the station and confirm that Enable Tx becomes active.
4. Watch the automated exchange and confirm the QSO is logged when complete.

Power and duty cycle

Start at low power. FT8 transmits for most of each 15-second transmit period and can heat radios and amplifiers more than casual voice operation. Monitor temperature and use equipment within its digital-mode rating.

Part 11 - Normal startup and shutdown

Normal startup order

1. Turn on the IC-7300.
2. Select the radio's FT8 preset.
3. Start WSJT-X.
4. Confirm CAT control and the correct audio devices.

5. Start GridTracker.
6. Select the band and Monitor.

Normal shutdown order

1. Disable WSJT-X transmission.
2. Close GridTracker.
3. Close WSJT-X.
4. Return the IC-7300 to the normal voice or CW preset if desired.
5. Turn off the radio.

Part 12 - Updates and backups

Updating WSJT-X

1. Use the [official latest-release page](#).
2. Close WSJT-X and GridTracker before updating.
3. In WSJT-X, select **File -> Open log directory**.
4. Back up at least `wsjtx_log.adl` and any custom frequency or configuration files.
5. Writable files are normally under `C:\Users\<username>\AppData\Local\WSJT-X`.
6. Install the new release and recheck callsign, grid, COM port, audio devices, UDP port, and PSK Reporter Spotting.

Updating GridTracker

1. Use the [official GridTracker downloads page](#).
2. Close GridTracker before installing an update.
3. Export or back up GridTracker settings and log data before a major update.
4. After updating, verify 127.0.0.1 and port 2237.

After a major Windows update

- [] The IC-7300 COM port still appears in Device Manager.
- [] The COM number has not changed, or WSJT-X has been updated with the new number.
- [] Both USB Audio CODEC devices remain available.
- [] Both audio devices remain set to 16-bit, 48 kHz.
- [] Audio enhancements remain off.
- [] The Windows clock is synchronized.
- [] A receive test succeeds before transmitting.

Before every radio-firmware update

- [] Save the radio settings to the SD card.
- [] Use only Icom's official firmware page.
- [] Confirm that the firmware is for the original IC-7300.

[] Do not interrupt radio power during the update.

Troubleshooting

Symptom	Most likely fixes
No COM port in Device Manager	Reinstall the official Icom driver with the radio disconnected. Try another known-good data cable, connect directly to the PC, and restart Windows.
Test CAT turns red	Select the correct COM port, match 19200 baud in the radio and WSJT-X, close other rig-control programs, and verify the radio is on.
CAT works but Test PTT does not	Confirm PTT Method is CAT and Rig is Icom IC-7300. Repeat Test CAT first.
Radio keys but produces no RF	Verify WSJT-X Output is USB Audio CODEC, the radio is USB-D, DATA MOD is USB, and the Pwr slider is not at minimum.
Waterfall is blank	Select Monitor; choose Microphone (USB Audio CODEC) as input; enable desktop microphone access; raise USB AF output or Windows recording level.
Receive meter is pegged	Lower Windows recording level, radio USB AF output, or RF gain. Turn off the preamp if unnecessary.
Signals appear but nothing decodes	Synchronize Windows time; verify FT8 mode and dial frequency; widen the filter; center PBT; disable notch, NR, and NB.
Most DT values have the same offset	Correct the Windows clock and select Sync now. Use Meinberg NTP if Windows does not remain synchronized.
Excessive ALC	Lower the WSJT-X Pwr slider, then reduce the IC-7300 USB MOD Level if necessary.
GridTracker shows no RECEIVE	Match 127.0.0.1 and port 2237; enable Accept UDP requests; permit both programs through the firewall; restart both programs.
GridTracker map location is wrong	Enter the six-character grid in WSJT-X and verify GridTracker's station location.
No PSK Reporter entries	Enter callsign and grid, enable PSK Reporter Spotting, verify Internet access, and monitor standard FT8 messages for several minutes.
USB disconnects only while transmitting	Suspect RF feedback. Lower power, use a short shielded USB cable, add ferrites, improve station bonding, and add a feed-line common-mode choke.
Windows or GridTracker sounds transmit	Remove USB Audio CODEC as the Windows default output and route GridTracker alerts to the PC's ordinary speaker or headset.

Final success checklist

- [] IC-7300 firmware is 1.40 or later; preferably 1.42.
- [] The official Icom USB driver is installed.
- [] The IC-7300 COM port appears in Device Manager.
- [] USB Audio CODEC input and output appear in Windows.
- [] Both audio devices are 16-bit, 48 kHz, with enhancements off.
- [] Windows time is synchronized.
- [] The IC-7300 is in the FT8 preset and USB-D.
- [] WSJT-X Test CAT is green.
- [] WSJT-X receives and decodes FT8.
- [] GridTracker shows RECEIVE on 127.0.0.1:2237.
- [] PSK Reporter Spotting is enabled.

[] Tune produces low-power RF with no meaningful ALC.

[] Windows and GridTracker sounds cannot reach the radio's USB audio output.

Configuration complete

When every item above is satisfied, the station is ready for normal FT8 operation. Keep a backup of the WSJT-X log and the IC-7300 SD-card settings before major updates.

Appendix - Full official URLs

The labels elsewhere in this PDF are clickable. The full URLs below are included for printing, manual entry, and verification.

Icom USB driver 1.30

https://www.icomjapan.com/support/firmware_driver/1974/

Icom Windows 11 USB-driver guide

<https://www.icomjapan.com/support/manual/1768/>

WSJT-X 3.0.2 direct installer

<https://github.com/WSJTX/wsitx/releases/download/v3.0.2/wsitx-3.0.2-win64.exe>

WSJT-X latest release

<https://github.com/WSJTX/wsitx/releases/latest>

GridTracker direct installer

<https://download2.gridtracker.org/GridTracker2-2.260705.2-setup.exe>

GridTracker downloads

<https://gridtracker.org/index.php/downloads/gridtracker-downloads>

PSK Reporter map

<https://pskreporter.info/pskmap.html>

Icom IC-7300 firmware 1.42

https://www.icomjapan.com/support/firmware_driver/4102/

Icom IC-7300 full manual

<https://www.icomjapan.com/support/manual/2271/>

WSJT-X user guide

<https://wsitx.github.io/wsitx/guide.html>

GridTracker WSJT-X configuration

<https://docs.gridtracker.org/latest/Appendices/Appendix-B-Configuring-WSJT-X-and-JTDX-for-GridTracker.html>

PSK Reporter home

<https://pskreporter.info/>

Meinberg NTP

<https://www.meinbergglobal.com/english/sw/ntp.htm>

Microsoft Windows Update

<https://support.microsoft.com/en-us/windows/deployment/updates-lifecycle/install-windows-updates>

Microsoft date and time

<https://support.microsoft.com/en-us/windows/experience/personalization/set-time-date-and-time-zone-settings-in-windows>