



DA-7X2 CPS V1.05 Migration and Backup

Back up your codeplug, open it in CPS V1.05d, restore it, and verify the read-back

Scope: Use this workflow for the same DA-7X2 being updated to V1.05. Do not use it to move a codeplug from another radio model or to change the radio's frequency band or hardware identity.

Migration at a glance

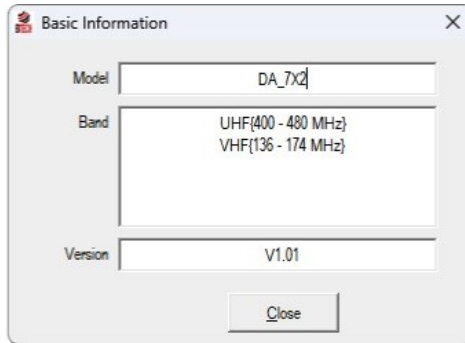
Stage	Action	Result to preserve
1. Back up	Read the radio with the currently working CPS	Untouched .rdt backup
2. Duplicate	Create a working copy and store another copy elsewhere	Two recoverable backups
3. Open	Open the working copy in BTECH CPS V1.05d	V1.05d working file
4. Review	Check model, band, IDs, channels, lists, and Optional Settings	No missing or changed data
5. Restore	After the firmware reset, write the reviewed V1.05d file	Radio programming restored
6. Read back	Read the radio again and compare	Proof that the write succeeded

1. Make a verified backup

1. Power the radio on normally and use the currently working BTECH CPS to choose Program > Read From Radio.
2. Save the untouched read as DA-7X2_BACKUP_YYYY-MM-DD.rdt.
3. Use Save As to create DA-7X2_V105_WORKING_YYYY-MM-DD.rdt. Make changes only in this working copy.
4. Record the radio model/band and the MCU, icon, NR, baseband, and Bluetooth versions from Device Info.
5. Export the Digital Contact List separately if you use a large contact database.
6. Capture screenshots of the Optional Setting pages you use, especially GPS, APRS, Bluetooth, recording, keys, and repeater settings.

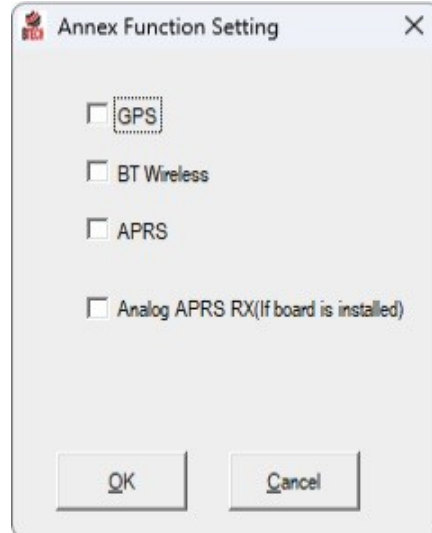
Verified backup gate: Close and reopen both .rdt files. Copy the untouched backup and the contact export to a second device or trusted cloud location. Do not install CPS V1.05d until the stored files reopen and their names include the radio model and date.

2. Install and prepare CPS V1.05d



Record the model and frequency bands exactly as shown. Check the radio's Device Info menu separately for firmware and component versions.

7. Install DA_7X2_Setup_1.05d.exe from 03_CPS_V1.05d.
8. Open CPS V1.05d and choose Tool > Options. Enable only the hardware features installed in the radio, such as GPS, Bluetooth, APRS, and recording.
9. Confirm the model is DA_7X2 and the displayed VHF/UHF bands match the radio.
10. Do not change model identity, band limits, production options, or calibration data.



Tool > Options opens Annex Function Setting. Enable only features that are present and used on your radio.

3. Open and review the working copy

11. In CPS V1.05d, open DA-7X2_V105_WORKING_YYYY-MM-DD.rdt.
12. If CPS reports a model, band, or conversion error, stop and keep the original file unchanged.
13. Use Save As and add V105d to the filename.
14. Review every area in the comparison table before writing the file to the radio.

Stop on a mismatch: Do not use Set Initialization, a cross-model converter, or a blank codeplug to work around an error. Keep the verified backup and contact BTECH Support.

4. Compare the important data

Area	What to compare
Model and band	DA-7X2 identity and the same authorized frequency band as the radio
Radio IDs	All required DMR IDs, names, and selected default ID
Talkgroups and contacts	Counts, call types, names, and representative records at the beginning and end
Channels	Analog/digital mode, RX/TX frequencies, tones, color codes, slots, contacts, and TX permit
Zones	Zone count, channel order, hidden status, and startup selections
Scan	List count, up to 50 channels per individual group, linked groups, priority channels, and revert behavior
Optional Settings	Power-on, display, audio, keys, digital functions, GPS/APRS, Bluetooth, recording, and repeater controls
Feature options	Tool > Options matches the hardware installed in the radio

5. Restore after the firmware reset

15. Complete the main firmware update using the separate DA-7X2 V1.05 Firmware Update Guide.
16. Initialize the radio with PTT + PF1 and set the time zone, date, and time.
17. Open the reviewed V1.05d working file and choose Program > Write To Radio.
18. Confirm the Digital Contact List after the main write. If it is missing, keep the separate export and contact BTECH Support before writing that data area separately.
19. Power-cycle the radio, then choose Program > Read From Radio and save the result as DA-7X2_V105_READBACK_YYYY-MM-DD.rdt.
20. Compare the read-back with the table above. Perform authorized low-power analog, DMR, scan, APRS/GPS, Bluetooth, and NR tests as applicable.

Rollback and recovery

A codeplug backup does not downgrade firmware. If the radio starts but its programming is wrong, correct the V1.05d working copy and write it again. Keep the untouched backup unchanged.

Stop and preserve evidence: If CPS reports a model/band mismatch, changes frequencies, drops records or scan settings, or cannot read the radio back, stop. Keep the backup, contact export, working file, read-back file, screenshots, and exact error text for BTECH Support.