AT-D578UV PLUS/AT-D578UVIII PLUS
Firmware & CPS Change Log

The updates in this change log only apply to the AnyTone® AT-D578UV PLUS or AT-D578UVIII PLUS Radio. Before doing any firmware updates, please check your model by going to the Device INFO Menu, located in Menu->Settings, and selecting Device Info. Under Model it will say D578UVII. If your radio says 578UV, please download the firmware package that shows AT-D578UV.

*** USB Drivers – For Windows 10 and Windows 11 systems, you do not need to install any drivers. Connect the radio with the programming cable, turn on the radio, and once it is fully booted up, Windows will detect and install the correct drivers. If you are still on the Date and Time screen, it will not detect the radio. You must be on the main radio screen.

For Windows 7/8 Systems, please install the USB driver available at:https://w9jam.com/anytone-firmware-cps-guides/

D578UV --- Please use the firmware D578UV_V1.xx for updating the radio.

D578UVII --- Please use the firmware D578UVII_V2.xx for updating the radio.

Firmware V2.09 | 2026-11-07

Changes

1. Fixed an issue in which the D578UV cooling fan did not operate as expected. Due to the modification of the detection logic for fan activation, some radios may experience premature fan activation, which cannot be rectified. It is recommended to set the fan activation to only occur during transmission.
2. Improved digital APRS operation on AT-version radios.
3. Separated out the TX and RX Color Code settings for each channel.
4. Added eight fixed-position entries to the APRS page for Fixed Beacon use.
5. Added Maidenhead locator display to GPS information.
6. Changed the GPS icon to a green satellite icon. (Designed by IK8JHL.)
7. Added Master Radio ID functionality, matching the D878UV.
8. Improved the popping sound that could occur at the start of transmission or while listening to a QSO.
9. CPS > Optional Setting > Other > Sub Spk in TX: Setting this option to Off prevents received APRS packet audio from being transmitted.
10. Added the ANA SQL key function for quick adjustment of the analog squelch level. The function is available on both the radio and the BT01 microphone; the BT01 also requires a compatible firmware upgrade.
11. Fixed an issue in which an incoming APRS packet could interrupt APRS SMS composition and return the radio to the main screen.

12. CPS > Tool > JSON Data Import/Export: Added the ability to export a JSON file containing Optional Settings and other radio settings. Importing the JSON file preserves the maximum number of compatible settings. This tool is compatible with the D878UV, D878UVII, D578UV, D168UV, and D890UV.
13. CPS->Optional Setting -> Repeater, add Auto Repeater 2 which allows to set 2 groups of Auto repeater.
14. CPS->Optional Setting -> Key function, add the Backlight Level setting.
15. Fixed an issue in which the D578UV can't get the position and message from the D168UV.
16. Fixed an issue where when using an analog channel with digital APRS TX, the radio device transmits using a random DMR ID instead of the DMR ID set in the channel.

Firmware	CPS	Icon	SCT 3258	BT Version	APRS Version	BT01 Firmware
V2.09	V1.22	-	V2.01.07 BF	10043 or 19043	V2.00 or V1.06	V1.03

Firmware V2.08 | 2024-06-19

Changes

1. Improve the issue that the BT01 stuck at "Roaming… Please Wait!".when it works with the radio,
2. Resolve the issue that "Zone Hide" is invalid on BT01 bluetooth microphone.

Firmware	CPS	Icon	SCT 3258	BT Version	APRS Version	BT01 Firmware
V2.08	V1.21	-	V2.01.07 BF	10043 or 19043	V2.00 or V1.06	V1.02

Firmware V2.07 | 2024-01-31

Changes

1. Improve the issue that the radio load 2.06.2 firmware, the green LED keeps on when power on the radio.

Firmware	CPS	Icon	SCT 3258	BT Version	APRS Version	BT01 Firmware
V2.07	V1.20	-	V2.01.07 BF	10043 or 19043	V2.00 or V1.06	V1.01

Firmware V2.06.2 | 2023-09-25

Changes

1. Improve the scan speed, ignore some burst signal.

2. Modify the SMS to support the Text Capture on BM.
3. Modify the CPS to prohibit the CPS read the AES / ARC4 encryption from the radio, and prohibit the CPS read the AES / ARC4 encryption from the codeplug. We suggest you export the AES / ARC4 encryption codes from the old CPS and save it on your PC, in case you need to create the codeplug, you can import the encryption codes.
4. Resolve the issue that sometimes D578UV stuck when use BT01 through bluetooth wireless connection.
5. Resolve the issue that D578UV has a frequency shift when power on the D578UV with repeater function default ON.
6. Modify the firmware to make the AES encryption have a variable Vector(IV) instead of fixed “12345678”.

Firmware	CPS	Icon	SCT 3258	BT Version	APRS Version	BT01 Firmware
V2.06.2	V1.19	-	V2.01.07 BF	10043 or 19043	V2.00 or V1.06	V1.01

Firmware V2.05 | 2023-04-21

Changes

1. CPS->Digital->ARC4 encryption, add the ARC4 encryption which is compatible with Motorola.
2. CPS->Optional Setting ->Digital -> Voice Header Repetitions, allows you set the voice header transmit times to sync the receive radio, it will improve the communication success rate with RX radio.
3. CPS->Optional Setting ->Digital -> TX preamble to define the preamble time of the data transfer function (not needed for audio calls), and improve synchronization
4. SMS confirmation mode improvements with better compatibility with other devices
5. Call Alert fully compliant with ETSI recommendation
6. Resolve the issue that when BT01 is connected, the radio freezes when sending APRS.
7. Resolve the issue that BT MIC GAIN setting in CPS doesn’t load into BT01 when program into BT01 microphone.
8. Resolve the issue that BT01 custom BT name is incorrect after reboot BT01 microphone.
9. Resolve the issue that D578UV does a reset when the radio lose power during scan the air channels, which lead the D578UV has to reload the codeplug.
10. Resolve the issue that D578UV doesn’t display the active air channel information during scanning, it still shows the initial air channel when start the scan.

Firmware	CPS	Icon	SCT 3258	BT Version	APRS Version	BT01 Firmware

V2.05	V1.18	-	V2.01.07 BF	10043 or 19043	1.06	V1.01

Firmware V2.04 | 2022-12-08

Changes

1. Channel -> Analog -> 5Tone ID, make the decode standard in current channel to be same as the 5Tone ID encode standard.
2. Upgrade the firmware to work with BT01 bluetooth microphone.

Firmware	CPS	Icon	SCT 3258	BT Version	APRS Version	BT01 Firmware
V2.04	V1.17	-	V2.01.07 BF	10043	1.06	-

Firmware V2.03 | 2022-07-05

Changes

1. Set the sub band default OFF when GPS roaming is turned On, to avoid the issue that sub band VFO channel jumps to random channel.
2. Add new function in CPS->APRS-> Analog -> PASS ALL. Set On PASSALL will receive more APRS message, but some are with corrupted data.

   Default OFF.

   This command enables the attempt to display corrupted packets when PASSALL is ON.

   When PASSALL is OFF, packets will be displayed only if the CRC (error checking) is correct.
3. Improve the analog APRS receive, with upgrading the APRS firmware to V1.04 for the APRS+BT board.
4. Resolve the issue that export .dcf file doesn’t work with Contact Manager V270.
5. Improve the issue that radio cracks when SFR repeater is running, requires an upgrade on the SCT to resolve this issue.
6. In CPS->Scan list-> Digi Group Hold Time, Digi Pri hold time, add the hold time setting when receive signal at digital channel during scanning.

Firmware	CPS	Icon	SCT 3258	BT Version	APRS Version	BT01 Firmware
V2.03	V1.16	-	V2.01.07 BF（shall be updated from BA to BF）	10036	1.04 (shall be updated to V1.04)	-

Firmware V2.02 | 2021-11-30

Changes

1. Allow to select TG and RX group list for the new channel created in radio menu.
2. Improve the Single Frequency Repeater unstable problem.
3. Add APRS SMS function in the radio menu, allows the radio to receive and transmit APRS message.

   Sending APRS Text from one AnyTone radio to another that has the APRS Rx feature.

   Go to the radio Menu –> APRS –> APRS SMS where you can add a text message using the microphone keys, use the # key to switch from alpha to numbers, etc.

   After entering your text, confirm it with the Menu button to get to the next Call Sign / SSID entry screen. Enter the Call Sign and SSID dash number for the user you want to send the message to; use the # key to switch from alpha to numbers, etc. When you confirm the Call Sign the APRS test message will send.

   NOTE: APRS SMS TX setting is using the CPS->APRS-> Analog setting, so the received channel should have the matched frequency setting/CTCSS setting/band width to the TX radio's APRS setting, and have the APRS RX turned on.
4. Radio Menu ->Settings ->Device Info, add the APRS board version display
5. CPS->APRS->Analog, add 8 groups analog TX frequency. In CPS->Channel->Analog APRS Report Freq, allows select a TX frequency to transmit the analog APRS.
6. CPS->Common Setting->Channel ->DMR Mode, add “DCDM TS Split” mode. In this mode, the radio receives on the selected slot in channel, but in transmission it will use the other slot. This configuration is only in use when the radio talk through a D578UV in repeater mode with fixed slot.
7. CPS->Optional Setting -> Auto repeater, add 3 new functions. These 3 functions are only working when Repeater function set ON.

   Rep CC Limit: Repeater is not working when the color code doesn’t match.

   Rep Slot Path A: Repeater will receive at fixed slot on channel A and transmit in the other slot on channel B.

   Rep Slot Path B: Repeater will receive at fixed slot on channel B and transmit in the other slot on channel A.
8. CPS->Common Setting ->GPS Roaming, allow user set a list of GPS locations, when GPS positioning is within the preset radiation radius of coordinates, the radio will switch to the corresponding zone. 1)Common Setting->Optional Setting ->GPS/Ranging -> GPS set ON.

   2)Common Setting->Optional Setting ->GPS/Ranging -> GPS Roaming set ON.

   3)Common Setting->Optional Setting ->GPS/Ranging -> Distance unit,select Meter or Feet for the radius.

   4)Common Setting->GPS Roaming, complete the setting, maximum 16 coordinates can be set with matched zone.

9. CPS->Common Setting ->Zone -> Zone hide, add Zone Hide function in the Zone menu, it allows user hide some zone when they don't need it on display. Since the Zone Hide is new inserted item, it may be checked automatically when open an existing codeplug. CPS->Tool-> Zone Hide Operation, allows you check or uncheck all Zone Hide.
10. CPS->Common Setting ->Optional Setting->Key Function, add "Ana APRS Info", for fast accessing the received APRS information.
11. CPS->Common Setting ->Channel -> Send Talker Alias, make the Talker Alias to be private setting for each channel, instead of public setting for all channels.
12. CPS->Tool -> APRS information Manager, allows the CPS to read the received APRS message from radio and export.
13. Add "Draft" in the Messages menu, unsuccessful SMS is saved in draft and can be resent.
14. Add timezone GMT+5:30(India), GMT+5:45 (Nepal), GMT+4:30(Afganistan), GMT+3:30(Iran) GMT-3:30 (Newfoundland, Canada), GMT+8:30 (Eucla)
15. Change the APRS message to be a lower priority than menu, the radio will not be kicked out of radio menu when receive the APRS message.
16. Correct the analog APRS sending inaccurate altitude (height) issue.
17. Correct the corrupted alert tone issue.
18. Make the TOT valid for the cross band repeater function.
19. Change the AM frequency to maximum 145MHz (138-145MHz AM is useable, but the spec may not best).
20. Radio menu -> APRS -> Ana APRS Info ->APRS Verify, allows you set the function on or off. The Anytone firmware has error code verification when receive analog APRS information, it helps to display the data correctly. Turn off the error code verification may improve the analog APRS receive.

Firmware	CPS	Icon	SCT 3258	BT Version	APRS Version	BT01 Firmware
V2.02	V1.15	-	V2.01.07 BF（same, no need update）	10036	-	-

Firmware V2.01 | 2021-06-13

Changes

1. CPS->Optional setting ->Display->Date Display Format, allows the user set the date format on display.
2. CPS->Optional setting ->Display->Display Channel type, allows the user turn off the channel type on display
3. CPS->Optional setting ->Display->Display time slot, allows the user turn off the time slot on display
4. CPS->Optional setting ->Display->Display color code, allows the user turn off the color code on display

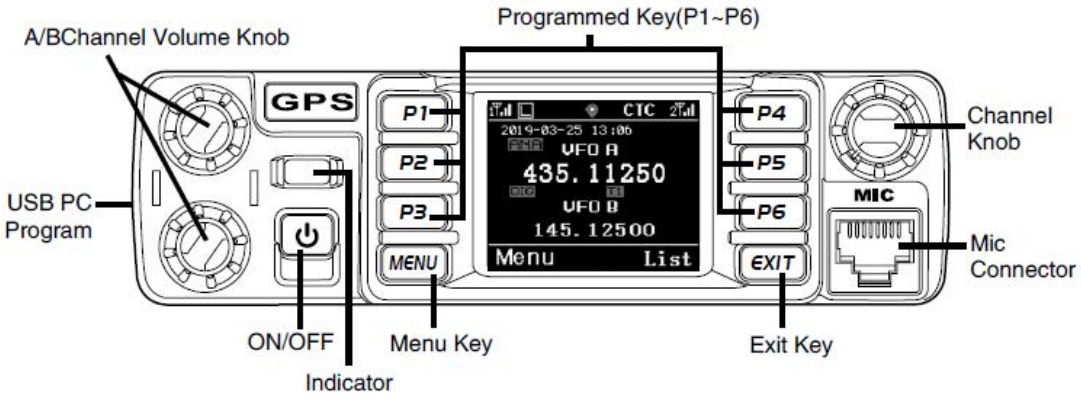
5. CPS->Optional Setting ->Alert Tone, add Ana idle channel tone, the digital channel and analog channel have separated idle channel tone setting.
6. CPS->Channel -> Auto scan, tick on the box will allow the radio start scan automatically.
7. CPS->Optional Setting ->Volume/Audio, separate mic gain setting for digital channel and analog channel
8. CPS->APRS ->Ana AprsTX, allows to set wide band or narrow band for analog APRS transmit.
9. Add the alert tone setting in radio menu.
10. CPS->Analog -> 2Tone Setting-> Auto Reset Time changes to maximum 250S. If you set Auto Reset Time to 25s, it keeps the squelch on carrier until there is 25 secs of silence, then it switches back to waiting for tones. If there is a transmission before the end of that 25 secs, the timer restarts. It is useful for the 2Tone Paging System.
11. CPS->Analog -> 5Tone Setting-> Auto Reset Time changes to maximum 250S
12. CPS->Analog -> DTMF-> Auto Reset Time changes to maximum 250S
13. CPS->Optional Setting ->AM/FM -> AM squelch, allows to set the AM squelch separately.
14. Rename to AM menu to AM air.

Firmware	CPS	Icon	SCT 3258	BT Version	APRS Version	BT01 Firmware
V2.01	V1.14N 0612	-	V2.01.07 BF （same, no need update）	10036	-	-

---

This release is for Anytone AT-D578UV PLUS/AT-D578UVIII PLUS use.

How to know your firmware version



Press (Menu) key to enter the menu, turn channel knob to the Device Info and enter into the menu to check the model.

D578UV --- Please use the firmware D578UV_V1.xx for updating the radio.

D578UVII --- Please use the firmware D578UVII_V2.xx for updating the radio.

If you use wrong firmware for updating, the radio will remind “version error”. After load into correct firmware, it will work fine.

Model Name	D578UV/ D578UVIII	D578UVG/ D578UVIIIG	D578UV PRO/ D578UVIII PRO	D578UV PLUS / D578UVIII PLUS
Included	No GPS/BT	GPS	GPS & BT	GPS, BT,Air band
Glass print	black	black	black	black+silver
Analog APRS TX	No	Yes	Yes	Yes
Analog APRS RX	No	No	No	Yes
Digital APRS TX	No	Yes	Yes	Yes
Digital APRS RX	No	Yes	Yes	Yes
Air band RX	No	No	No	Yes
Memory IC capacity	2G	2G	2G	2G
Digital Contact	500,000	500,000	500,000	500,000
Firmware	D578UV	D578UV	D578UV	D578UVII
CPS	D578UV	D578UV	D578UV	D578UV
Notice: D578UV PLUS use a different firmware D578UVII V2.xx, CPS is same as D578UV.				