

Explanation for Codeplug as made by PC7MM

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|-------------------------|-------------------|----------------------------|--------------------------------------|
| Device | Anytone AT-D168UV | CPS / Firmware used | 1.07 / 1.07 (released on 14-06-2025) |
| Codeplug date | 07-07-2025 | DMR user database | 04-07-2025 |
| Codeplug version | 20250707 | BM Talk Group list | 04-07-2025 |

Disclaimer by PC7MM

This Codeplug has proven to work on the device as mentioned. PC7MM does however not take any responsibility for any negative impact of using this Codeplug. The Codeplug was generated using the CPS and Firmware versions as mentioned. The codeplug could be used with other versions/models but this was not tested. The Codeplug was designed for "MODE:00000" which means 400-480MHZ and 136-174MHz. The codeplug might not work with other modes. To to change to "MODE:00000", press the PTT + number 1 button and power on the device afterwards. The mode can be changed by rotating the channel knob.

Overview of Zones and Scanlists

| Zone (# channels) | Zone Description | Zone (# channels) | Zone Description |
|--------------------------|--|-------------------|---|
| Home (26) | Frequencies for home location, ao hotspots and repeaters | Fire Brigade (16) | Fire brigade frequencies |
| Repeaters NL EHV (34) | FM/DMR Repeaters around Eindhoven | Red Cross (30) | Red Cross frequencies |
| Repeaters NL UTR (45) | FM/DMR Repeaters around Utrecht | TGN SIMPLEX (47) | Tijdelijk Gesloten Netten (TGN) frequencies (simplex) |
| Repeaters NL North (50) | FM/DMR Repeaters in The Netherlands (North region) | TGN DUPLEX (10) | Tijdelijk Gesloten Netten (TGN) frequencies (duplex) |
| Repeaters NL Middle (50) | FM/DMR Repeaters in The Netherlands (Middle region) | Companies (50) | Frequencies assigned to companies |
| Repeaters NL South (49) | FM/DMR Repeaters in The Netherlands (South region) | Construction(13) | Building project frequencies |
| Nautic 1 (50) | Nautical frequencies related to guidance | | |
| Nautic 2 (47) | Nautical frequencies related to information exchange | | |
| Nautic 3 (50) | Nautical frequencies related to companies and Mariphone | | |
| AERO Air-to-Air (22) | Aero Air-to-Air communication frequencies | | |
| DARES (31) | Dutch Amateur Radio Emergency Service frequencies | | |
| JOTA-PMR-SIMP (26) | Personal Mobile Radio (PMR) + Jamboree on the Air (JOTA) | | |
| Freenet-FRS (28) | Family Radio Services (FRS) and Freenet frequencies | | |
| LPD 01-50 (50) | Low Power Devices (LDP) frequencies – part 1 | | |
| LPD 51-69 (19) | Low Power Devices (LDP) frequencies – part 2 | | |
| Digital Data (14) | Packet radio, APRS, AIS, P2000, PocsAG, Mobitex, DAPNET | Scanlists (22) | Scanable channels for scanning through the zones |

Explanation to Zones and Scanlists

Zones can contain a maximum of 250 Channels, scanlists only a maximum of 50 Channels. Because Zones and Scanlists are kept equal, both contain a maximum of 50 Channels. The codeplug contains 3965 channels. Besides all international repeaters, all channels are assigned to zones. You can adjust channel/zone assignments according to your specific needs. A separate zone "Scanlists" is available, which contains 1 Scannable Channel for every Zone. All Channels in the any Zone are scanned when the scan function is activated. Channels can be assigned to 1 or more Zones and hence Scanlists simultaneously. When a Channel is not assigned to any Zone, it can be found in the CPS but not in the device.

Explanation to Scanning

You can browse to the Zone you want to scan through. The "Scanable Channel" should be displayed by default. Scanning starts by pressing button PF3 (orange). If activity is found on a Channel, the Scanner stops on that specific Channel. When the activity is finished, the Scanner automatically continues scanning. If you don't want the Scan function to start scanning again after the activity on a specific Channel is finished, you can press the Menu key (green). If you want to stop scanning, you can press the Exit key (red) at any time during the scanning process.

Explanation to APRS

The "Home" Zone contains Channel "APRS Analog RxTx". This Channel can be used to automatically and manually send/receive APRS data via 144.80000 MHz or via 431.03750 MHz. The "Home" Zone contains Channel "APRS Digital RxTx". This Channel can be used to automatically and manually send/receive APRS data via a Hotspot or DMR Repeater.

Adjustments before you can start using this Codeplug (can be done through CPS software)

| | |
|----------|---|
| Required | Enter your DMR ID and Callsign in "Radio ID List" menu item which is part of "Digital" menu |
| Required | Enter your callsign in "Your Call Sign" field with APRS settings |
| Required | Change the Power-On Display text or add your custom pictured being displayed during Power-On |
| Required | Enter your fixed GPS coordinates in the APRS settings, which will be used if you broadcast fixed GPS coordinates instead your real location data |
| Required | Enable all the options that are available via the "Tools" menu, option "Options", in the CPS software |
| Optional | Change the Channels in the Home Zone to your specific needs, for example: enter data of your own hotspots and add local repeaters |
| Optional | Change Channel/Zone/Scanlist assignments according to your needs, especially for international repeater frequencies that are not yet assigned to any Zone |
| Optional | Change power saving settings and display brightness settings according to your needs |
| Optional | Change hardware button functions according to your needs |
| Optional | Enable/disable and/or change power-on password |
| Optional | Change GPS status to ON instead of to OFF if you want to send your real location data instead of the stored fixed GPS coordinates |
| Optional | Change APRS message that is sent with all outgoing APRS broadcasts in "Enter your sending text" field |
| Optional | Enable APRS to send real location data instead of sending fixed GPS coordinates |
| Optional | Change the transmit frequencies for the "APRS Analog RxTx" and/or "APRS Digital RxTx" Channels according to your requirements. |

Programmed functions of hardware buttons (can be adjusted to your needs)

| | | | |
|-----------------------------|--|-------------------------------|---|
| PF1 (blue) short | Start scanning through channels in selected zone | PF2 (purple) short | Toggle between main and sub channel |
| PF1 (blue) long | Toggle between VFO and channel memories in zones | PF2 (purple) long | Turn sub channel functionality on/off |
| PF1 (blue) very long | Switch channel type: Analog, DMR, A+, D, A+ | PF2 (purple) very long | Switch between DMR Time Slot 1 and 2 |
| Hold Menu + press 1 | Select Talk Group 204 (The Netherlands) | Hold Menu + press 7 | Select Talk Group 2043217 (PI4UTR UTR-LINK) |
| Hold Menu + press 2 | Select Talk Group 20401 (Hobbyscoop C4FM Wires-X) | Hold Menu + press 8 | Select Digital Contact List |
| Hold Menu + press 3 | Select Talk Group 20423 (Utrecht) | Hold Menu + press 9 | Go to Radio Settings |
| Hold Menu + press 4 | Select Talk Group 20409 (Utrecht Leidsche Rijn) | Hold Menu + press * | Go to DMR SMS functions |
| Hold Menu + press 5 | Select Talk Group 20493 (RFDX) | Hold Menu + press # | Go to Quick Texts for DMR SMS |
| Hold Menu + press 6 | Select Talk Group 2045 (The Netherlands) | | |
| Hold 0 | Dial to Talk Group (hold # for dial to private DMR ID) | Press PTT + PF1 | Send 1750Hz TBST Tone Burst |
| | | Press # in any Menu | Go back directly to the main screen |



