

## CAN NODE SYSTEM



# AP Periph

Contains information relevant to using AP periph on the micro node system

We support AP\_Periph based firmware's for our CAN node. The Nodes ship with a generic AP\_periph firmware by default.

## Default firmware features

- 4 PWMs/GPIOs
  - PA8 - PWM 1 - GPIO 50
  - PA9 - PWM 2 - GPIO 51
  - PA10 - PWM 3 - GPIO 52
  - PA11 - PWM 4 - GPIO 53
- Serial UBLOX/NMEA GPS (Serial 3 by default)
- Barometers
- Airspeed
- Battery (any, but ADC PA0 voltage and PA1 Current enabled by default)
- Relay

## Firmware files and flashing

If there is no AP periph bootloader present on the node (you've been using Arduino DroneCAN for example) then AP\_Periph\_with\_bl.hex needs flashing with STM cube Programmer using STLINK or UART.

If the AP periph bootloader is present, the .bin file can be used in the usual way through mission planner.



We've working on merging our hwdef file into Ardupilot repository



636KB

AP\_Periph\_with\_bl.hex

For use with STM Cube Programmer



191KB

AP\_Periph.bin

If the AP periph bootloader is present on the node, this file can be used to program the firmware through mission planner.



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Arduino DroneCAN

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Air Data Module



Last updated 9 days ago

