

***UAV* CAN**



CAN bus for UAV and robots

# What is UAVCAN

- CAN bus for UAV
- Consistent ecosystem
- Open standard
- MIT-licensed reference implementation
- Advanced features

# Core design goals

- Publish-Subscribe & Request-Response
- Democratic network
- Long messages
- Redundancy
- Simplicity

# Early adopters

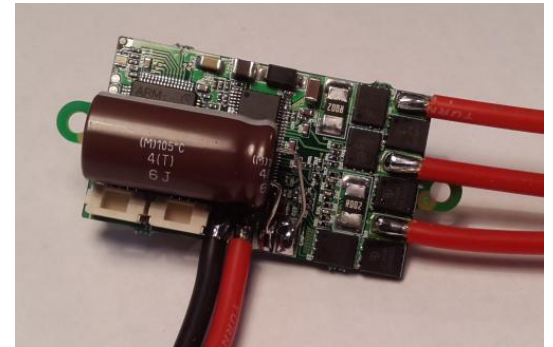
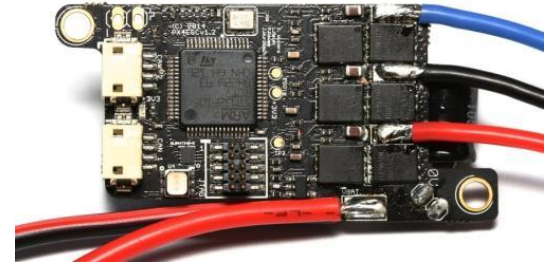
The logo for SDR, featuring the letters 'S', 'D', and 'R' in a bold, black, sans-serif font. The 'S' and 'R' have blue triangular accents at their top and bottom right corners, respectively.The logo for PX4 autopilot, consisting of the text 'PX4' in a stylized white font above the word 'autopilot' in a smaller white font, all contained within a black rounded rectangular background.The logo for Zubax, featuring a stylized red 'Z' followed by the word 'ubax' in a red, lowercase, sans-serif font.The logo for DAS DANISH AVIATION SYSTEMS, with 'DAS' in a bold, orange, sans-serif font and 'DANISH AVIATION SYSTEMS' in a dark blue, uppercase, sans-serif font.The logo for SmartAP Smart AutoPilot, with 'SmartAP' in a bold, blue, sans-serif font above the words 'Smart AutoPilot' in a smaller, blue, italicized, sans-serif font.The logo for phobotic, featuring the word 'phobotic' in a bold, italicized, dark grey, sans-serif font.The logo for VIRTUAL ROBOTIX, featuring a stylized black robot head with a white visor and a small red and green detail, above the words 'VIRTUAL' and 'ROBOTIX' in a bold, black, sans-serif font.The logo for APM MULTIPLATFORM AUTOPILOT, featuring a stylized green and grey arrow pointing right, above the letters 'APM' in a bold, grey, sans-serif font, with 'MULTIPLATFORM AUTOPILOT' in a smaller, grey, sans-serif font below.

# Now and future of UAVCAN

- Specification is stable
- Last RFC next month
- Release mid 2015
- Feedback is welcome - [uavcan.org/contact](http://uavcan.org/contact)

# A use case - PX4ESC

- Feedback and diagnostics via UAVCAN
- Advanced motor control
- Redundancy
- Open hardware
- BSD-licensed firmware



# Now and future of PX4ESC

- It's flying
- Release in two months
- More at [pixhawk.org/firmware/px4esc](http://pixhawk.org/firmware/px4esc)