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

3DR
PX4 autopilot
Zubax
DAS DANISH AVIATION SYSTEMS
SmartAP Smart AutoPilot
phobotic
VIRTUAL ROBOTIX
APM MULTIPROTOCOL AUTOPILOT
Now and future of UAVCAN

- Specification is stable
- Last RFC next month
- Release mid 2015
- Feedback is welcome - 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