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ESC | FC | MOTOR | VTX+RX

ARCTIC DISCRETION. RAVENOUS ON COMMAND

AR32FC | H743 FLIGHT CONTROLLER

Flight Controller with 14S input capability designed and manufactured in Finland with components from non-China COG. Tailored for demanding applications and offering high capacity throughput with minimal compromises. Reach out and select the next generation of Flight Controller coming from the North for Your platform.



Electrical Specifications

- Input Voltage: 4 – 14 S LiPo
- 5 V Servo / Peripheral Rail output for max 3 A aggregate
- 12 V VTX Rail output for max 3 A continuous usage
- USB-C input for 3.3 V



Mechanical & Thermal

- Cooling Method: Passive/Heat sink
- Operating Temperature Range: -30 °C – +85 °C
- Board Size: 60 x 60 mm
- Mounting Pattern: 30.5 x 30.5 mm / M4 holes



Protection & Features

- Protections: Current limiter, Overcurrent protection, Drain-source voltage monitoring, Cross-conduction prevention, Temperature protection, Low voltage cutoff, Stuck rotor protection, Stall protection, Rotor lock detection, Signal loss timeout
- Additional Features: Transient protections (snubbers, dual-TVS)



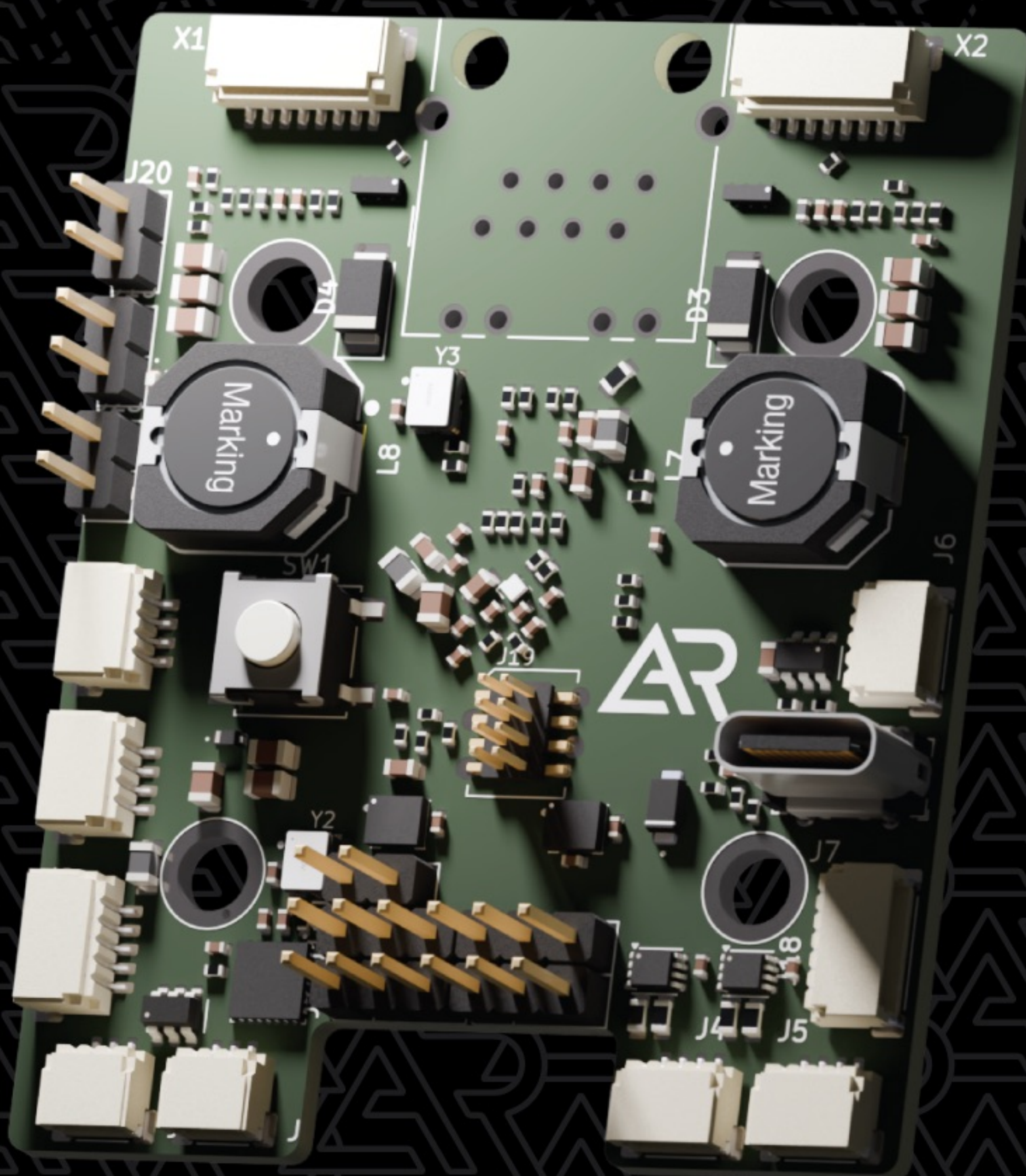
Firmware & Protocols

- Firmware: Custom
- Supported Protocols: Bidirectional DShot (150, 300, 600) and Servo PWM
- Telemetry: Bidirectional DShot & KISS
- Dual IMU
- Barometer
- 3-axis magnetometer



Connectors & Interfaces

- Signal Output: 2 x JST-SH SM08B
- Servo outputs: 4 x
- UART ports: 6 x JST-SH
- Ethernet: optional RJ45 capability
- I2C: (mutually exclusive with RJ45)
- Relays: 2 x 12 V / VBAT feed
- USB-C: 3.3 V digital input
- MicroSD: SDMMC /SDIO



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