PX2FMU – Flight Management Unit

QUICK START – HARDWARE VERSION 0.2 DEV

Description

PX2FMU is an onboard management unit for micro air vehicles. It combines autopilot and inertial measurement unit and allows to control an aircraft using a single-board solution. The 30-pin expansion bus allows to combine it with other modules to provide additional I/O.

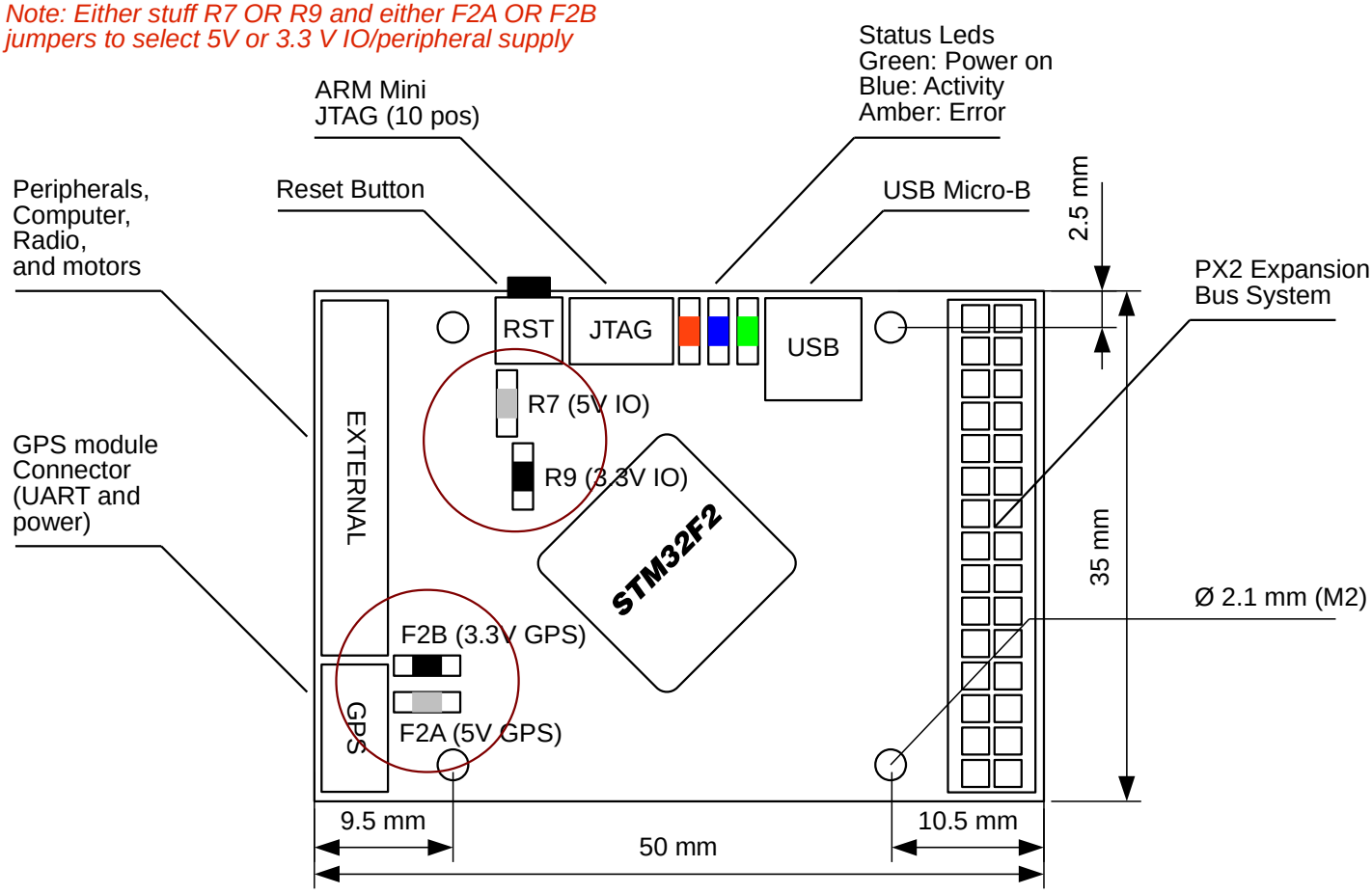
http://github.com/qgc/hardware

Features

- 120 Mhz Cortex-M3 CPU (128 KB RAM, 1 MB Flash)
- 50 mW power consumption
- 3D Gyro, ACC and Magnetometer
- Barometric pressure
- CAN/SPI/I2C/4x UART interfaces
- PX2 Expansion bus (PX2IO: Servo and solid state relay outputs)
- USB Bootloader
- 50x35x6 mm (1.38x1.97x0.24“), 8g, 30x30 mm mounting holes
- 4.3-6V wide supply input range (incl. USB power)
- Selectable 3.3V or 5V IO

Connectors, Jumpers and Dimensions

Note: Either stuff R7 OR R9 and either F2A OR F2B jumpers to select 5V or 3.3 V IO/peripheral supply



Pinout and absolute maximum Ratings

- Input: 4.3-6V, 10 mA onboard use, max. 800 mA peripheral supply
- Output: 5V/3.3V, fuse-limited 500 mA EXT, 5V/3.3V, fuse-limited 200 mA GPS