AVIONICS 2022 HOSTBOARD

Engineering
Serial, SWD and USB
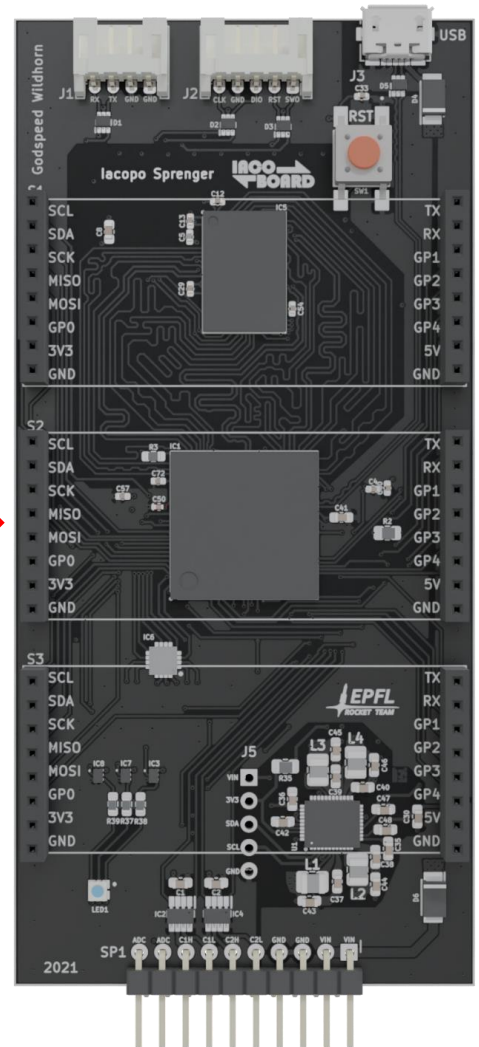
Memory
512MB DDR3 @ 533Mhz

Processing
A7 @ 800MHz Performance dual core
M4 @ 200MHz Real time core

Storage
32GB microSD storage @ 64MHz

Interfacing
Power spine and dual FDCAN

Interfacing
3 Sockets with SPI, I²C, Serial, PWM and GPIO

Software
Linux running C/C++ and Python3.8 on CA7
FreeRTOS running C/C++ on CM4

Power
500mA in performance mode
100mA in power saving mode

Typical application