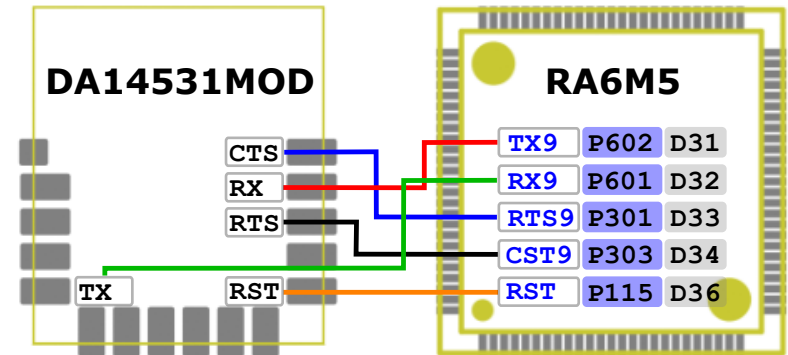
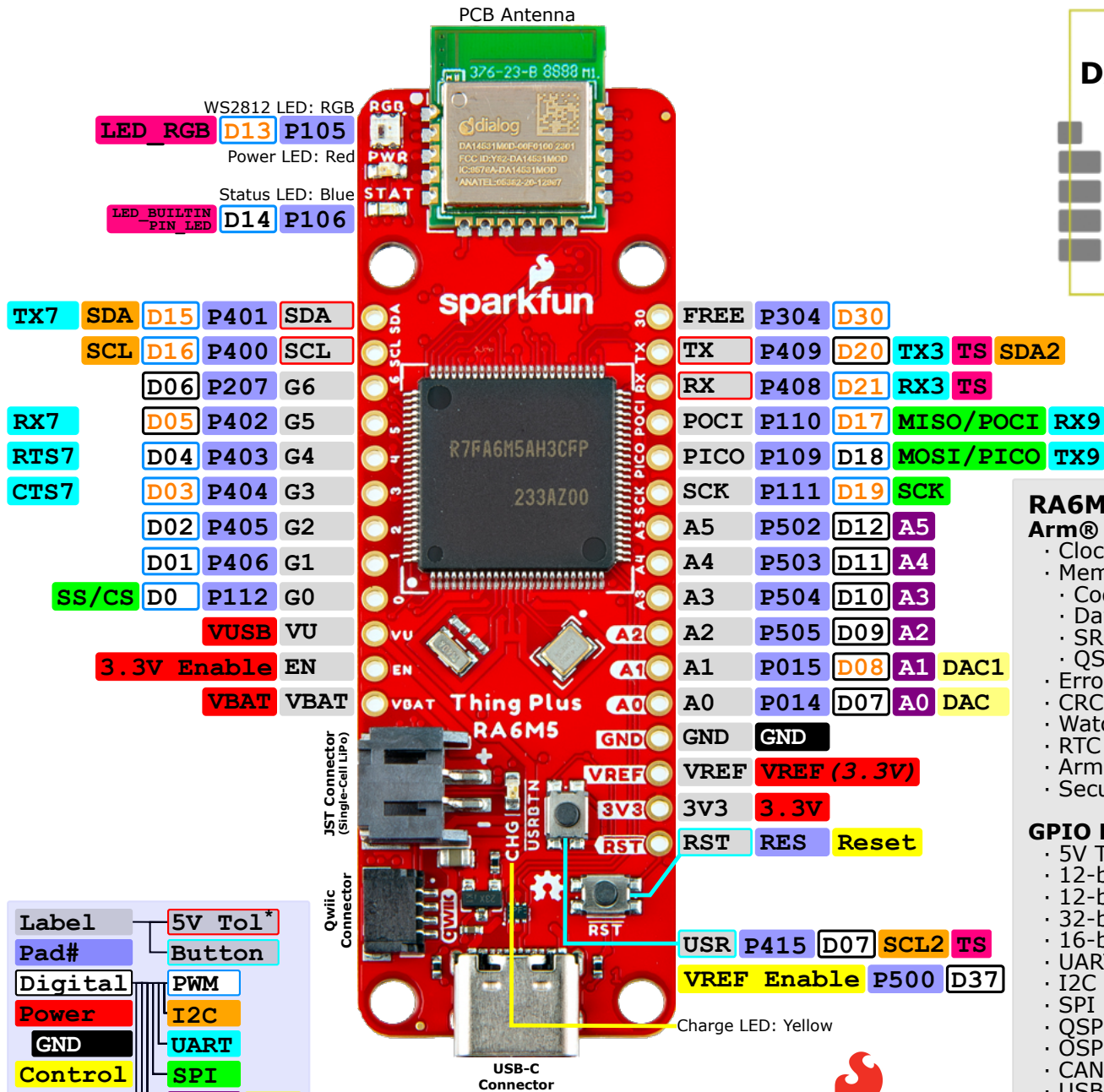


SparkFun RA6M5 Thing Plus (WRL-24243)



RA6M5

Arm® Cortex®-M33

- Clock: 200MHz (max.)
- Memory:
 - Code: 2MB
 - Data: 8KB
 - SRAM: 512KB
 - QSPI Flash: 16MB
- Error Correction Code
- CRC Calculator
- Watchdog Timers (x2)
- RTC with Calendar
- Arm Memory Protection Unit
- Secure Crypto Engine

GPIO Pins (x75):

- 5V Tolerant (x14)
- 12-bit ADC (x6)
- 12-bit DAC (x2)
- 32-bit PWM Channels (x4)
- 16-bit PWM Channels (x6)
- UART (x10)
- I2C Bus (x3)
- SPI Bus (x2)
- QSPI (x1)
- OSPI (x1)
- CAN Interface
- USB 2.0 (Full/High Speed)
- SD/MMC Host Interface
- Serial Sound Interface
- Capacitive Touch Sensing
- Consumer Electronics Control

DA14531MOD

Arm® Cortex® M0+

- Clock: 16MHz (max.)
- Memory:
 - Flash: 128Kbit
 - RAM: 48Kbit
 - ROM: 144Kbit
 - OTP: 32Kbit

Bluetooth 5.1

- Up to three connections
- Power: -19 to +2.2dBm
- Sensitivity: -93dBm

Power:

- Operating Voltage:
 - RA6M5: 3.0-3.6V
 - DA14531: 1.8-3.6V
- Current Consumption:
 - RA6M5:
 - Max: 143mA (peak)
 - Normal: 32mA
 - Sleep: 11mA
 - Deep-Sleep: 10-150µA
 - DA14531:
 - Transmit: 4mA
 - Receive: 2mA
 - Sleep: 1.8µA
- Batt. Charge Rate: 213mA

| Label | Pad# |
|---------|--------|
| 5V Tol* | Button |
| Digital | PWM |
| Power | I2C |
| GND | UART |
| Control | SPI |
| | ADC |
| | DAC |
| | IRQ |
| | Misc |

*GPIO 3.3V tolerant only



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