Adafruit Grand Central M4 Express

https://www.adafruit.com/product/4064

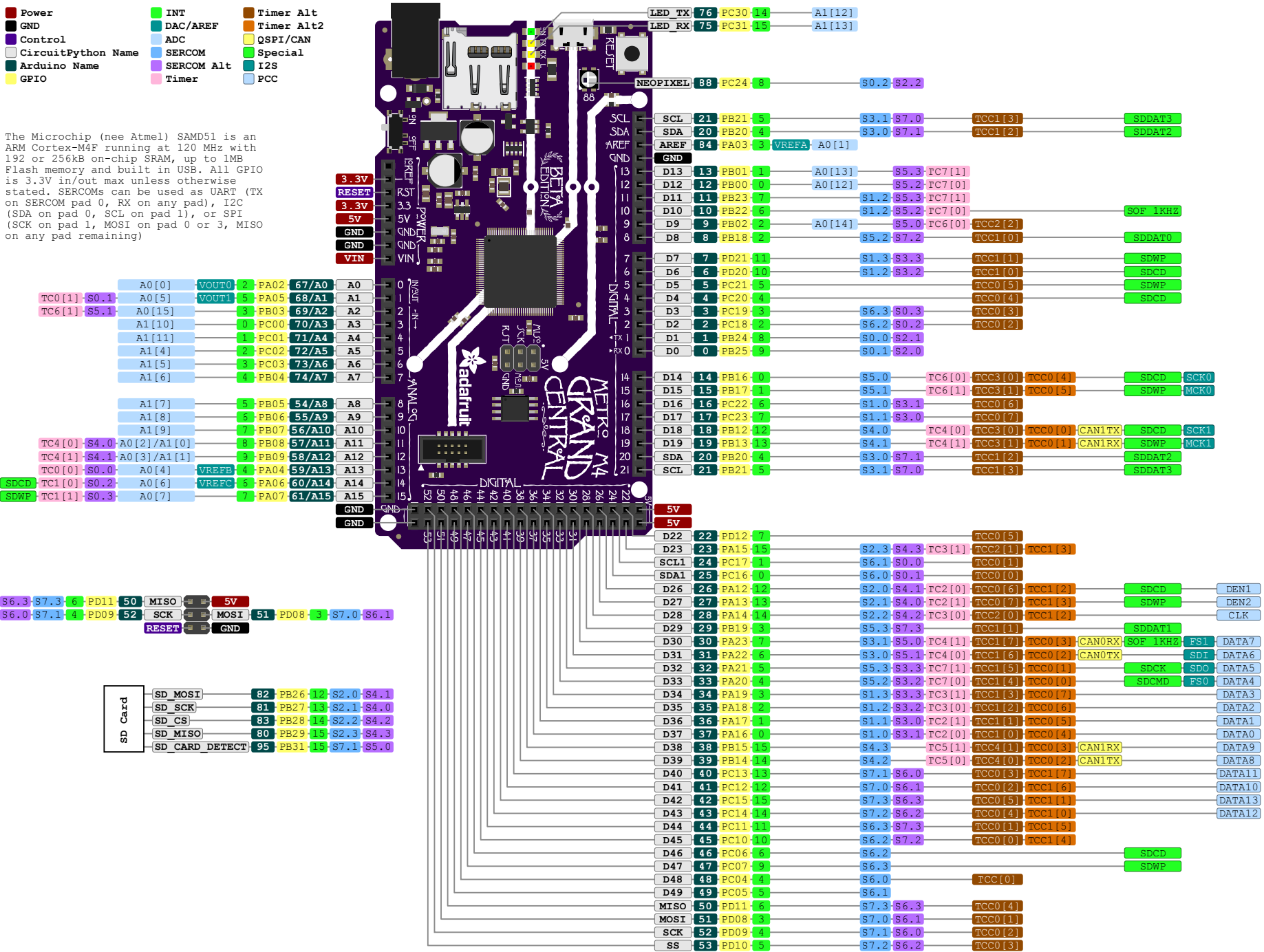**Legend:**
- Power
- GND
- Control
- CircuitPython Name
- Arduino Name
- GPIO
- INT
- DAC/AREF
- ADC
- SERCOM
- SERCOM Alt
- Timer
- Timer Alt
- Timer Alt2
- QSPI/CAN
- Special
- I2S
- PCC

The Microchip (nee Atmel) SAMD51 is an ARM Cortex-M4F running at 120 MHz with 192 or 256kB on-chip SRAM, up to 1MB Flash memory and built in USB. All GPIO is 3.3V in/out max unless otherwise stated. SERCOMs can be used as UART (TX on SERCOM pad 0, RX on any pad), I2C (SDA on pad 0, SCL on pad 1), or SPI (SCK on pad 1, MOSI on pad 0 or 3, MISO on any pad remaining)

CircuitPython can also reference most digital pins as "board.D" + Arduino pin number

SD Card:
- SD_MOSI — 82 PB26 12 S2.0 S4.1
- SD_SCK — 81 PB27 13 S2.1 S4.0
- SD_CS — 83 PB28 14 S2.2 S4.2
- SD_MISO — 80 PB29 15 S2.3 S4.3
- SD_CARD_DETECT — 95 PB31 15 S7.1 S5.0