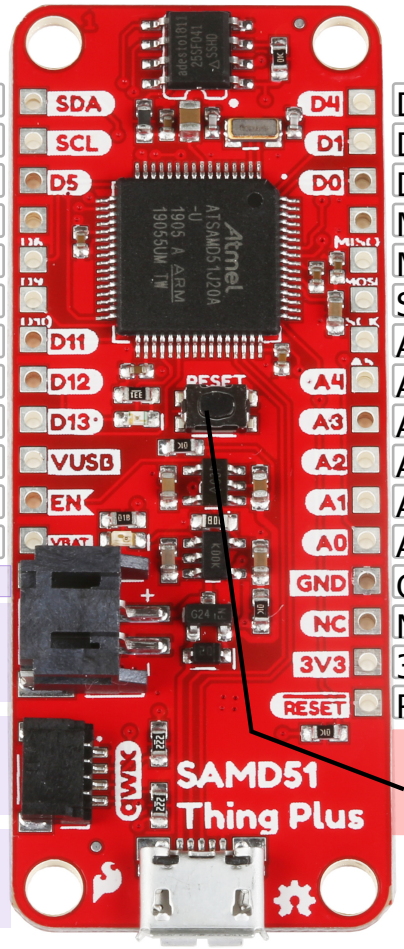
SparkFun Thing Plus - SAMD51 (DEV-14713)

Name	ADC
Power	Interupt
GND	Serial
Control	Sercom
Arduino	DAC
Port	Misc

3:0/5:1	SDA	INT6	PA22	D20	SDA
3:1/5:0	SCL	INT7	PA23	D21	SCL
	2:3/4:3	INT15	PA15	D5	D5
	5:2/3:2	INT4	PA20	D6	D6
0:3	INT7	AIN7	PA07	D9	D9
	1:2/3:2	INT2	PA18	D10	D10
	1:0/3:1	INT0	PA16	D11	D11
	1:3/3:3	INT3	PA19	D12	D12
LED	1:0/3:1	INT12	PA17	D13	D13
				VUSB	VUSB
				VREG	EN
				VBAT	VBAT



D4	D4	PA06	AIN6	INT6	0:2	VREFC
D1	D1	PA12	INT12	RX	2:0/4:1	
D0	D0	PA13	INT13	TX	2:1/4:0	
MISO	D22	PB11	INT11	MISO	4:3	
MOSI	D23	PB12	INT12	MOSI	4:0	
SCK	D24	PB13	INT13	SCK	4:1	
A5	A5	PB02	AIN14	INT2	5:0	
A4	A4	PA05	AIN5	INT5	0:1	DAC1
A3	A3	PA04	AIN4	INT4	0:0	VREFB
A2	A2	PB09	AIN3	INT9	4:1	
A1	A1	PB08	AIN2	INT8	4:0	
A0	A0	PA02	AIN0	INT2	DAC0	
GND	GND					
NC	NC					
3V3	3.3V					
RESET	RESET					

I2C Pullups Jumpers

Cut to disable

SWDIO	1:3	INT15	PA31	SWDIO
SWCLK	1:2	INT14	PA30	SWCLK
1:0/3:1	INT12	PA17	D13	LED

Connectors

JST- PH (2-pin)
Single Cell Lipo

JST-SH (4-pin)
Qwiic (I2C)
Connector

microB USB
Power, Programming
Battery Charging

Reset Button

Must double tap to program

Power

Vin:2.5V - 6V
VCC: 3.3V @ 600mA
JST: Single Cell LiPo battery
Battery Charging via USB
Vreg Enable: On by default with 10k resistor

SAMD51J20A

120MHz ARM Cortex - M4
VCC: 1.71V - 3.63V
6 Sercom Channels
1MB Flash Memory
256kB SRAM

Hardware

4MB Flash Memory
UF2 Bootloader
Feather compatible
PWM available on all GPIO
Charge LED: Yellow
D13 LED: Blue

sparkfun.com

CC BY SA