SAMD21 Mini Breakout (DEV-13664)

Arduino Zero compatible

Name	Interupts	A
Power	Serial	
GND	Serial Com	C/D
Control	Timer	E/F
Arduino	PTC	B
Port	Misc	G/H
DAC	ADC	B

PWM pins maked with ~

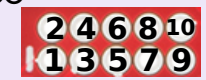
TC - Timer Counter
TCC - Timer Counter - Controller
PTC - Peripheral Touch Controller
NMI - External Non-Maskable Interupt
Pin can only be A,B,C,D,E,F,G or H at any time
Selecting B disables digital control

LEDs

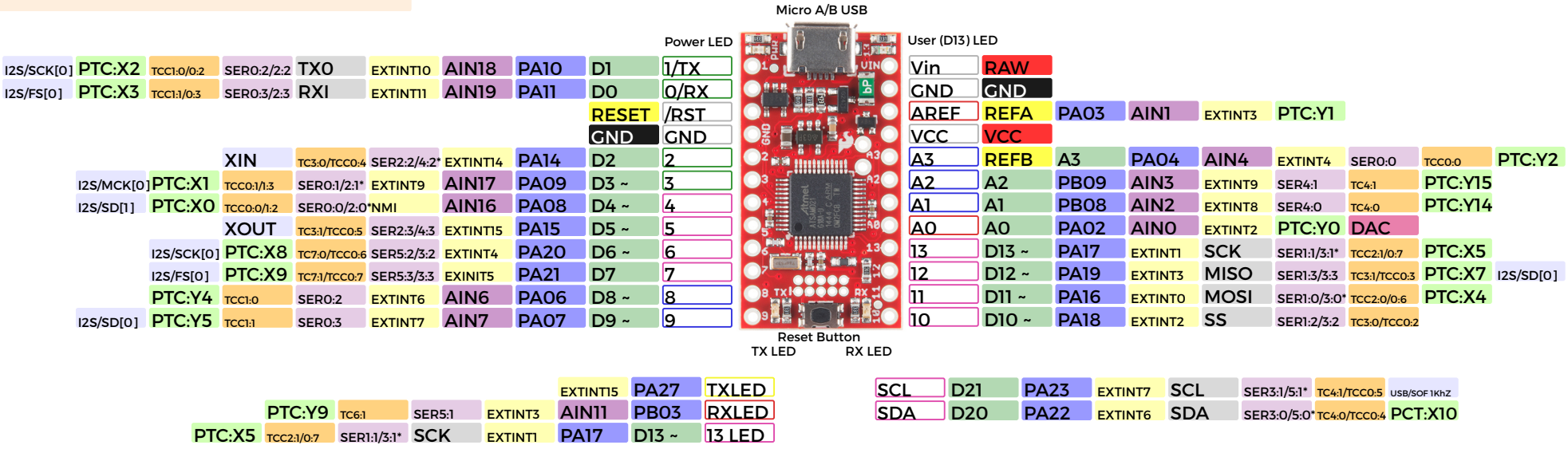
Power: Red
D13 (PIN_LED_13): Blue
TX (PIN_LED_TXL): Green
RX (PIN_LED_RXL): Yellow

Programming Header

1. VCC 3.3V
2. SWEDIO/TMS
3. GND
4. SWDCLK/TCK
5. GND
6. SWO/TDO
7. Key
8. NC/TDI
9. GNDDTCT
10. Nreset



SJ1 - on back of board
disconnect to disconnect power LED



Power

RAW: 3.5V-6.0V

VCC: 600mA @3.3V

Each pin is 3.3V tolerant and can source/sink no more than 7mA/10mA

Each cluster of I/O pins can source 46mA and sink 65mA. Clusters are defined as Yellow, Pink, Green, Blue, and Red outlines.

SamD21G18

VCC:1.62-3.63V

Arm Cortex-M0 + (32-bit)

Flash Memory: 256KB

SRAM: 32KB

ADC: 12-bit

48MHz

RTC

USB 2.1 with USB host capability

Serial

USB: SerialUSB

Hardware Serial: Serial1

Only Ports with * can be configured to do I2C

USB host: Set PIN_USB_HOST_ENABLE high

sparkfun ELECTRONICS

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