SAMD21 Dev Breakout (DEV-13672)

Arduino Zero compatible

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

Name
Power
GND
Control
Arduino
Port
DAC
PWM pins marked with ~

TC0:3
TC5:3
TC6:3
TC7:3
TCC1:3
TCC0:3

PTC:Y2
PTC:Y1
PTC:Y0
PTC:X8
PTC:X9
PTC:X10
PTC:Y10

Serial
USB: SerialUSB
Hardware Serial (TX/D1 and RX/D0): Serial
Hardware Serial (30/TX and 31/RX): Serial1
USB: SerialUSB

Power
Vin: 5.5V-5.5V for charger - otherwise 3.5V-6.0V
VBATT: 3.7V Lipo
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, Red, and Orange 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 (TX/D1 and RX/D0): Serial I
Hardware Serial (30/TX and 31/RX): Serial0
Only Ports with * can be configured to do I2C
USB host: Set PIN_USB_HOST_ENABLE high

3.3V
5V
VIN
JST for single cell Lipo
USB OTG micro A/B

S1J
Disconnects R1 from charger circuit
Charge current= 256mA (1000V/R1) where R1=5900

S2J
remove to disconnect power LED