

Qwiic Micro - SAMD21E (DEV-15423)

Arduino Tips

analogWriteResolution (10) - to update PWM (0-1023)

analogReadResolution(12) - to update ADC (0-4095)

Pin name	Port
Power	Analog
Ground	Serial
Control	PWM
Arduino	Misc

DAC	A0	PA02	D1	D1
MOSI	A1	PA06	D2	D2
MISO	A2	PA05	D3	D3
SCK	A3	PA07	D4	D4
CS	A4	PA10	D5	D5
AREFB	A5	PA04	D6	D6
			D7	D7

The image shows a red ATmega328P microcontroller board. It features a USB-to-UART bridge chip (qwwt), a reset button labeled 'RESET', a 3.3V voltage regulator, and several push buttons labeled 'OFF' and 'ON'. The board has multiple pins labeled D1 through D16, A0 through A5, PA02 through PA31, SCL, SDA, SWDIO, and SWCLK. The ATmega328P chip is visible in the center.

RESET	D16	CONTROL	PA23	TX
D16	D17	D17	PA22	RX
D17	D8	D8	PA09	SCL
SCL	D0	D0	PA08	SDA
SDA	3.3V	3.3V		
3.3V	GND	GND		
GND				

D13	SWDIO	D23	PA30
D13	SWCLK	D22	PA31
LED			

Power

VBatt: 3V-6V
VUSB: 5V
VCC: 3.3V @600mV
Power Switch
JST connector on backside

SAMD21E

ARM Cortex-M0+ @48MHz
VCC: 1.62V-3.63V
256KB Flash/32KB SRAM
(plus 4Mb SPI Flash chip)
4 Sercom ports
12-bit ADC
10-bit DAC

LEDs/Misc Pins

Power LED: Red
Stat LED: Blue
Qwiic Connector (I2C)
(SDA:D0, SCL:D8)
W25Q32FV 4Mb flash
(MOSI:D2, SCK:D4,
MISO:D3, SS:D5)

