

Qwiic Micro - SamD21E

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 top-down view of a standard Arduino Uno R3 microcontroller board. The board is populated with several key components: an ATmega328P microcontroller chip at the center, a USB Type-D connector (labeled D13) on the left side, a DC power jack (labeled PWR) on the right side, and a reset button (labeled RESET). Various pins are visible along the edges, some of which are highlighted with colored labels corresponding to the tables provided.

D13	SWDIO	D23	PA30
D13	SWCLK	D22	PA31
LED			

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

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)

