Qduino Mini(Dev-13614)

8MHz/3.3V

Legend

Name	ADC
Power	PWM
GND	Serial
Control	Ext Interrupt
Arduino	PC Interrupt
Port	Misc

The Arduino IDE renders all PWM pins as 8-bit

OC#x: Output Compare and PWM Output x for Timer/Counter#
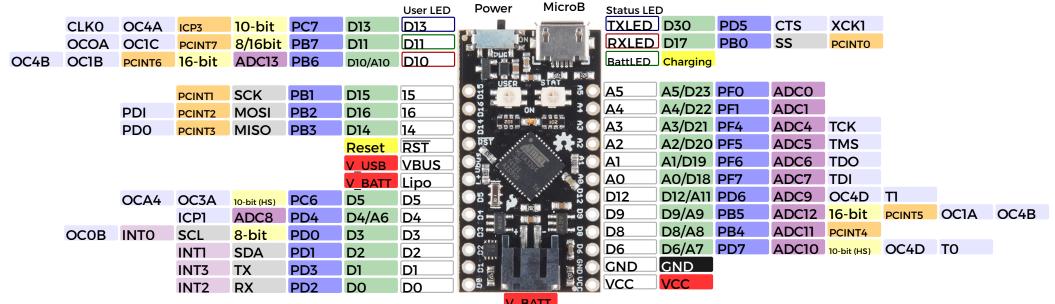PC Interrupt: Pin Change Interrupt
ICP3: Input Capture Timer 3
CLKO: Divided System Clock
TCK: JTAG - Test Clock
TMS: JTAG - Test Mode Select
TDO: JTAG - Test Data Output
TDI: JTAG - Test Data Input

SJ1 (on bottom of board)
Change charge current
from 100mA to 500mA

Left side pinout

							User LED
CLK0	OC4A	ICP3	10-bit	PC7	D13		D13
	OCOA	OC1C	PCINT7	8/16bit	PB7	D11	D11
OC4B	OC1B	PCINT6	16-bit	ADC13	PB6	D10/A10	D10
		PCINT1	SCK	PB1	D15		15
	PDI	PCINT2	MOSI	PB2	D16		16
	PD0	PCINT3	MISO	PB3	D14		14
				Reset			RST
				V_USB			VBUS
				V_BATT			Lipo
OCA4	OC3A	10-bit (HS)	PC6	D5			D5
	ICP1	ADC8	PD4	D4/A6			D4
OC0B	INT0	SCL	8-bit	PD0	D3		D3
	INT1	SDA	PD1	D2			D2
	INT3	TX	PD3	D1			D1
	INT2	RX	PD2	D0			D0

Power   MicroB

Right side pinout

Status LED

TXLED	D30	PD5	CTS	XCK1		
RXLED	D17	PB0	SS	PCINT0		
BattLED	Charging					
A5	A5/D23	PF0	ADC0			
A4	A4/D22	PF1	ADC1			
A3	A3/D21	PF4	ADC4	TCK		
A2	A2/D20	PF5	ADC5	TMS		
A1	A1/D19	PF6	ADC6	TDO		
A0	A0/D18	PF7	ADC7	TDI		
D12	D12/A11	PD6	ADC9	OC4D	T1	
D9	D9/A9	PB5	ADC12	16-bit	PCINT5	OC1A	OC4B
D8	D8/A8	PB4	ADC11	PCINT4		
D6	D6/A7	PD7	ADC10	10-bit (HS)	OC4D	T0
GND	GND					
VCC	VCC					

V_BATT
JST for single cell Lipo

Power

VBUS/V_USB: 5V to charge Lipo

VCC: 3.3V at 600mA

V_BATT/Lipo: Single Cell Lipo @ 4.2V

Serial

Use Serial for the USB connection

Use Serial1 for the hardware serial connection

Battery Fuel Gauge (MAX17048)

I2C Address = 0x36

Alert on D7 (Port: PE6, Interupt: Ext Int 6)

ATMega32U4

Built in USB 2.0

Absolute maxiumum VCC: 6V

Maximum current for chip: 200mA

Maximum current per pin: 40mA

Recommended current per pin:20mA

8-bit Atmel AVR

Flash Program Memory: 32kB

EEPROM: 1kB

Internal SRAM 2.5kB

ADC:10-bit

PWM:8bit

High Speed PWM with programmable
  resolution from 2-11 bits)

LEDs

Power: Green

Status Red: RX

Status Blue: TX

Status Green: Charging

User Red: D10

User Blue: D13

User Green: D11

USB

HID enabled

VID: 0x1B4F

PID: 0x514D; 0x516D