# Welcome to Teensy® 4.0

32 Bit Arduino-Compatible Microcontroller

To begin using Teensy, please visit the website & click Getting Started.

www.pjrc.com/teensy

Digital Pins
digitalRead
digitalWrite
pinMode

Analog Pins
analogRead

PWM Pins
analogWrite

Digital Audio
Audio Library

Serial Ports
Serial1 - Serial7

I²C Port
Wire Library

SPI Port
SPI Library

CAN Bus
FlexCAN_t4 Library

Red LED
Loading Status
dim: Ready
bright: Writing
blink: No USB

On/Off
Program
GND
3.3V
VBat

All digital pins have
Interrupt capability.

MIMXRT1062
DVL6A
0N00X
CTAA1848H

Vin (3.6 to 5.5 volts)
GND
3.3V (250 mA max)

PWM PWM   PWM PWM   PWM PWM PWM

MCLK1   BCLK1 LRCLK1   S/PDIF IN S/PDIF OUT

CRX1 CTX1   SCL0 SDA0 SDA1 SCL1   S/PDIF IN S/PDIF OUT   CRX1

RX5 TX5   TX4 RX4 RX3 TX3   SCK

A9 A8 A7 A6 A5 A4 A3 A2 A1 A0 (LED)
23 22 21 20 19 18 17 16 15 14 13

0 1 2 3 4 5 6 7 8 9 10 11 12
GND

RX1 TX1   RX2 TX2   CS MOSI MISO

CRX2 CTX2 OUT2 LRCLK2 BCLK2 IN2 OUT1D OUT1A IN1 OUT1C MQSR CTX1 MQSL

PWM PWM PWM PWM PWM PWM PWM PWM PWM PWM PWM PWM PWM

Teensy® 4.0 Back Side

Additional pins and features available on the back side

PWM SCL2 TX6 A10 24   25 A11 RX6 SDA2 PWM
     MOSI1   A12 26   27 A13   SCK1
PWM   RX7   28   29   TX7   PWM
     CRX3   30   31   CTX3
     OUT1B   32   33   MCLK2   PWM
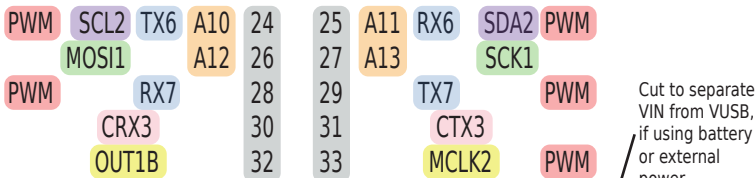
Cut to separate
VIN from VUSB,
if using battery
or external
power.

On/Off
Program
GND
3.3V
VBat

VUSB

D-
D+
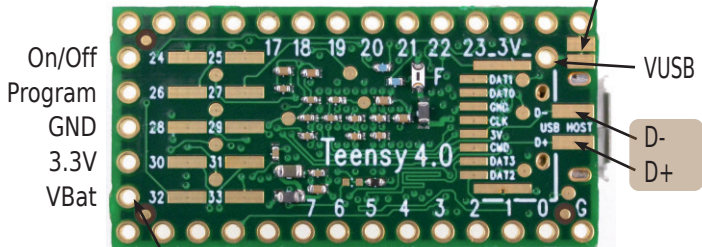
Use 3V coin cell for Date & Time
and power management features

34 DAT1 MISO2 PWM
35 DAT0 MOSI2 PWM

GND

36 CLK CS2 PWM

3.3V

37 CMD SCK2 PWM
38 DAT3 RX5 PWM
39 DAT2 TX5 PWM

SD Card (4 bit SDIO)
SD Library
SD.begin(BUILTIN_SDCARD)

USB Host
USBHost_t36 Library

Teensy 4.0 signal pins
are **not** 5V tolerant.
Do not apply more than
3.3 volts to any pin,
except VIN or VUSB.
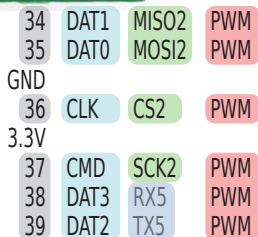
For solutions to the most common issues
and technical support, please visit:

www.pjrc.com/help