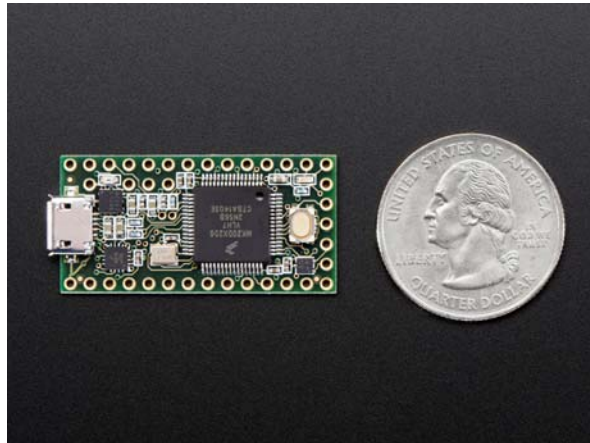
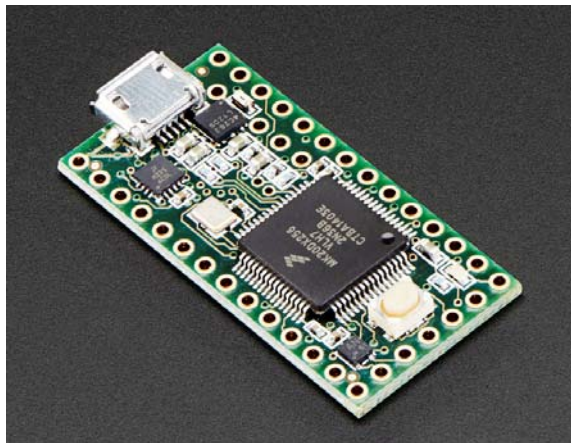




Teensy 3.2 + header

PRODUCT ID: 2756



Description

Teensy 3.2 is a small, breadboard-friendly development board designed by Paul Stoffregen and PJRC. Teensy 3.2 brings a low-cost 32 bit ARM Cortex-M4 platform to hobbyists, students and engineers, using an adapted version of the Arduino IDE (Teensyduino) or programming directly in C language. Teensy 3.2 is an upgrade over 3.1! Teensy 3.2 is a drop-in replacement upgrade for 3.1 and can run any sketches designed for 3.1.

This latest version of this complete USB-based microcontroller development system now adds a more powerful 3.3V regulator, as well as accepts a wider voltage input range. This board has the same size, shape and pinout as well as full compatibility with all shields and add-on boards made for the Teensy 3.1, plus double the Flash memory as the Teensy 3.0.

Let's get started!

Please note: Teensy 3 and 2 are not official Arduino-brand products. Although the Teensyduino IDE has been adapted so that many simple Arduino projects will work with the Teensy, there will still be a lot of libraries and shields that will not work with this device! If you're new to microcontrollers, we suggest going with a classic Arduino UNO since all Arduino projects, examples and libraries will work with it.

Once headers are installed they can be fitted into 0.6" wide sockets

Technical Specifications:

- 32 bit ARM Cortex-M4 72MHz CPU (M4 = DSP extensions) Here is Freescale's reference manual for the chip (warning 1227 pages) as well as the Datasheet and User Guide!
- http://cache.freescale.com/files/32bit/doc/ref_manual/K20P64M50SF0RM.pdf
- http://cache.freescale.com/files/32bit/doc/data_sheet/K20P64M50SF0.pdf
- http://cache.freescale.com/files/32bit/doc/quick_ref_guide/KQRUG.pdf
- 256K Flash Memory, 64K RAM, 2K EEPROM
- 21* High Resolution Analog Inputs (13 bits usable, 16 bit hardware)
- 34* Digital I/O Pins (21 shared with analog)
- 12 PWM outputs
- 1 12-bit DAC output
- 8 Timers for intervals/delays, separate from PWM
- USB with dedicated DMA memory transfers
- CAN bus
- 3 UARTs (serial ports)
- SPI, I2C, I2S, IR modulator
- I2S (for high quality audio interface)
- Real Time Clock (with user-added 32.768 crystal and battery)
- 16 general purpose DMA channels (separate from USB)
- Touch Sensor Inputs

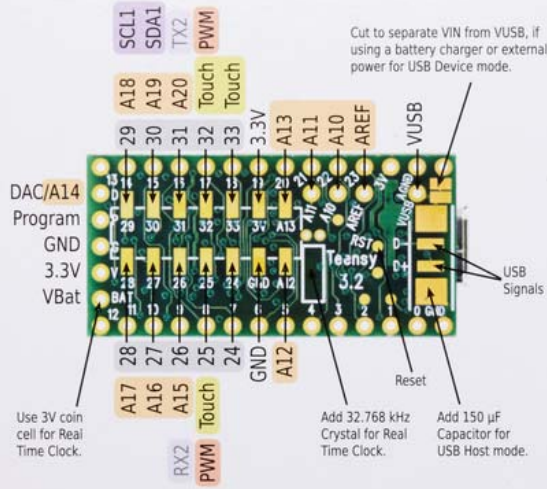
Technical Details

- Dimensions: 18mm x 37mm x 4mm / 1.4" x 0.7"
- Teensy 3 schematic <https://cdn-shop.adafruit.com/product-files/2756/2756+schem.gif>



Teensy 3.2 Back Side

Additional pins and features available on the back side



For solutions to the most common issues and technical support, please visit:

www.pjrc.com/help

Teensy 3.2 System Requirements:
 PC computer with Windows 7, 8, 10 or later
 or Ubuntu Linux 12.04 or later
 or Macintosh OS-X 10.7 or later
 USB Micro-B Cable



Welcome to Teensy 3.2

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
analogReference
analogReadRes

PWM Pins

analogWrite
analogWriteRes

Touch Sense Pins

touchRead

Serial Ports

Serial1
Serial2
Serial3

I²C Port

Wire Library

SPI Port

SPI Library

