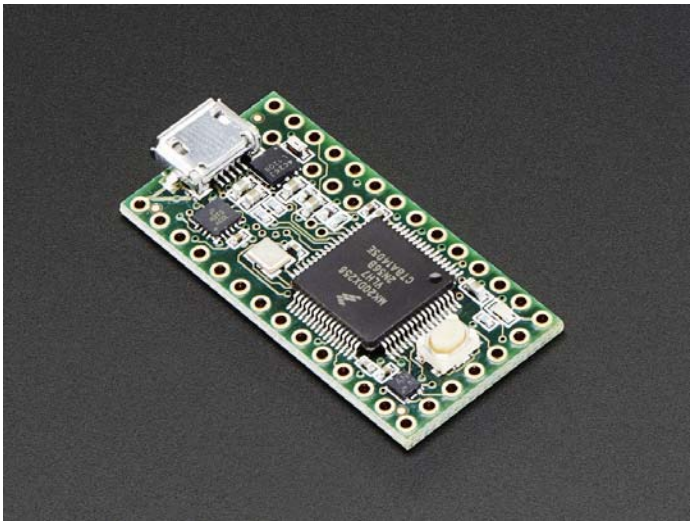
Teensy 3.2 + header

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 microcontoller 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.

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://www.adafruit.com/images/product-files/2756/2756%20schem.gif