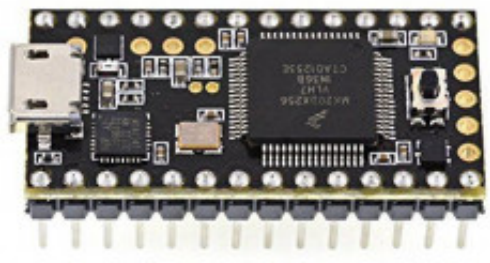
Teensy v3.1



Produktkode: 104aa
Tilgjengelighet: 1
Weight: 20.00g

Pris: kr. 360,00

Kort beskrivelse

Dette er en kraftig 32 bits mikrokontroller på linje med Due-versjonen av Arduinokortet. Med sin små dimensjoner gir dette kortet en voldsom datakraft i krevende kontrolloppgaver der tilgjengelig plass er minimal.

Beskrivelse

The Teensy is a breadboard-friendly development board with loads of features in a, well, teensy package. The Teensy LC (Low Cost) is a 32 bit microcontroller board that provides you with an uncomplicated option for getting started with the Teensy line of products without breaking the bank!

The Teensy LC comes pre-flashed with a bootloader so you can program it using the on-board USB connection: No external programmer needed! You can program for the Teensy in your favorite program editor using C *or* you can install the Teensyduino add-on for the Arduino IDE and write Arduino sketches for Teensy!

The processor on the Teensy also has access to the USB and can emulate any kind of USB device you need it to be, making it great for USB-MIDI and other HID projects. The 32 bit processor brings a few other features to the table as well, such as multiple channels of Direct Memory Access and an I2S digital audio interface! There are also 2 separate interval timers! Also, the Teensy LC can provide system voltage of 3.3V or 5V to other devices at up to 5-20mA.

All of this functionality is jammed into a 1.4 x 0.7 inch board with all headers on a 0.1" grid so you can slap it on a breadboard and get to work! So, what sets the Teensy LC apart from the Teensy 3.1? First off, this version has been streamlined to be as cost effective as possible. Obviously, the LC doesn’t share a lot of power that the 3.1 possesses but by no means does it make the LC a ‘weak’ board! The

Teensy LC is equipped with 8kb RAM, 62kb of flash memory, and 27 Digital I/O pins with 13 high res Analog inputs.

Note: The Teensy LC does not come with a USB cable, please check the *Recommended Products* section below for an appropriate one.

Dimensions: 1.4 x 0.7" (~35 x 18 mm)

Features:

- 32 bit ARM Cortex-M0+ 48 MHz CPU
- 62kb Flash Memory, 8kb RAM, 1/8(emu)kb EEPROM
- 13 High Resolution Analog Inputs
- 27 Digital I/O Pins (NOT 5V Tolerant)
- 10 PWM outputs
- 7 Timers for intervals/delays, separate from PWM
- 3 UARTs (serial ports)
- SPI, I2C, & I2S
- I2S (for high quality audio interface)
- 4 Lightweight DMA channels
- Touch Sensor Inputs

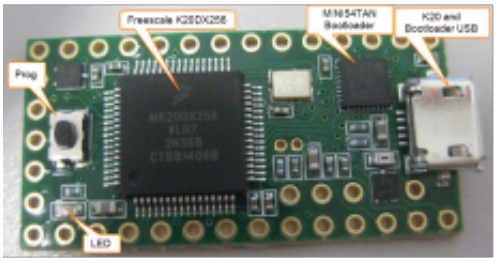
Documents:

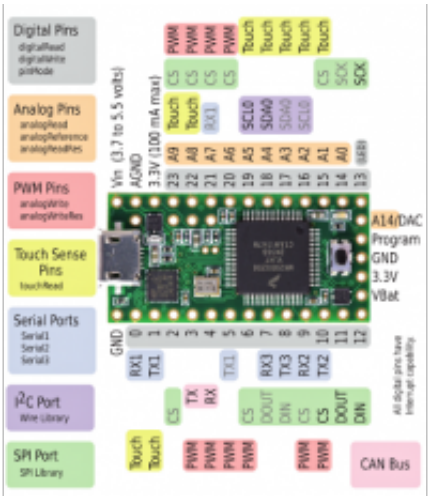
- Teensy Quickstart
- Teensyduino Software

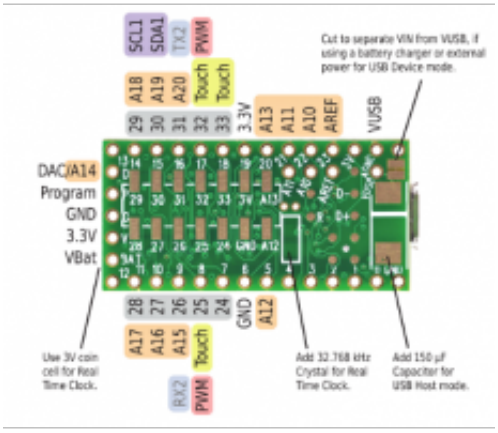
Tennsy i Arduino IDE

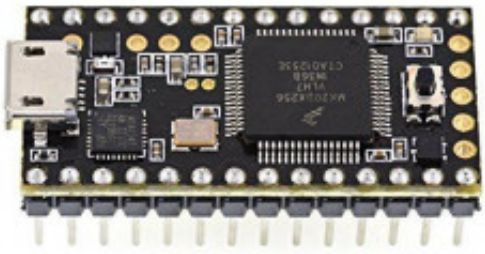
Se https://www.pjrc.com/teensy/teensyduino.html for instrukser for å bruke Arduino IDE for å programmere Teeensy-kortene.

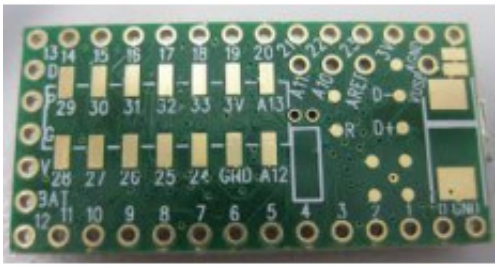
Produktgalleri



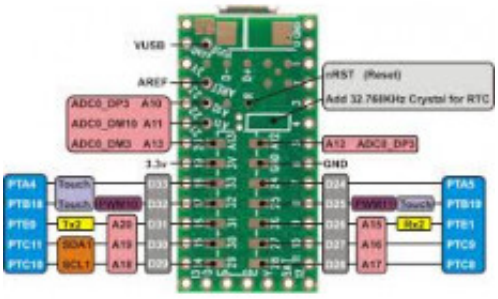



SCL1
SDA1
TX2
PWM
Cut to separate VIN from VUSB, if using a battery charger or external power for USB Device mode.
A18
A19
A20
Touch
Touch
29
30
31
32
33
3.3V
A13
A11
A10
AREF
VUSB
DAC/A14
Program
GND
3.3V
VBat
28
27
26
25
24
GND
A12
A17
A16
A15
Touch
RX2
PWM
Use 3V coin cell for Real Time Clock.
Add 32.768 kHz Crystal for Real Time Clock.
Add 150 µF Capacitor for USB Host mode.








VUSB
AREF
nRST (Reset)
Add 32.768KHz Crystal for RTC
ADC0_DP3 A10
ADC0_DM0 A11
ADC0_DM3 A13
A12 ADC0_DP3
3.3v
GND
PTA4
PTB18
PTB9
PTC11
PTC10
PTA5
PTB19
PTE1
PTC9
PTC8

