Teensy 4.0 Development Board

DEV-15583

Product Overview

12-15-2021

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

SparkFun Teensy 4.0 Development Board is designed for evaluation of NXP iMXRT1062 chip. The board features an Arm Cortex-M7 processor at 600MHz and is the fastest microcontroller available today. Teensy 4.0 hardware and Teensyduino's software support for Arduino timing functions are designed to allow dynamically speed changes.

The board consumes approximately 100mA current when running at 600MHz. Teensy 4.0's Cortex-M7 processor includes a Floating Point Unit (FPU) which supports both 64-bit double and 32-bit float. The board also consists of 1024K RAM, 2048K flash, 2 USB ports, 3 CAN bus, 3 I²C ports, 2 I²S ports, and 1 S/PDIF port.

Features

- Arm Cortex-M7 at 600MHz
- 1024K RAM
- 2048K flash
- 3 CAN bus
- 31 PWM pins
- 2 I2S digital audio
- RTC for date/time
- 1 S/PDIF digital audio
- 1 SDIO (4-bit) native SD
- 2 USB ports, both 480MBit/sec
- 3 SPI (all with 16 word FIFO)
- 3 I²C (all with 4 byte FIFO)
- 7 serial (all with 4 byte FIFO)
- 32 general purpose DMA channels
- 40 digital pins, all interrupt capable
- 14 analog pins, 2 ADCs on chip
- Cryptographic acceleration
- Random Number Generator

- Programmable FlexIO
- Pixel Processing Pipeline
- Peripheral cross triggering
- Power On/Off management

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