chipKIT uC32 Development Board

Part Number: TDGL017

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The chipKIT™ uC32™ is based on the popular Arduino® open-source hardware prototyping platform and adds the performance of the Microchip PIC32 microcontroller. The uC32 is the same form factor as the Arduino Uno board and is compatible with Arduino shields. It features a USB serial port interface for connection to the IDE and can be powered via USB or an external power supply.

The uC32 board takes advantage of the powerful PIC32MX340F512 microcontroller. This microcontroller features a 32-bit MIPS processor core running at 80 MHz, 512K of Flash program memory and 32K of SRAM data memory.

The uC32 can be programmed using the Multi-Platform Integrated Development Environment (MPIDE), an environment based on the original Arduino IDE modified to support PIC32. It contains everything needed to start developing embedded applications. In addition, the uC32 is fully compatible with the advanced Microchip MPLAB® IDE and the PICKit3™ in-system programmer/debugger.

The uC32 is easy to use and suitable for both beginners and advanced users experimenting with electronics and embedded control systems.

The uC32 provides 42 I/O pins that support a number of peripheral functions, such as UART, SPI, and I²C™ ports and pulse width modulated outputs. Twelve of the I/O pins can be used as analog inputs or as digital inputs and outputs.

Features | Additional Information

- Microchip PIC32MX340F512H microcontroller (80 MHz 32-bit MIPS, 512K Flash, 32K SRAM)
- Arduino Uno form factor; compatible with many shields that can operate at 3.3V
- Multi-platform IDE and software framework are compatible with many existing Arduino code samples and other resources
- 42 available I/O pins; two user LEDs
- Requires a USB A to mini B cable (not included)
- 7V to 15V input voltage (recommended); 20V maximum

Documentation & Software

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Documents	Last Updated	Size
chipKIT uC32 Board Schematic	10/12/2012 4:24:15 PM	189KB
chipKIT uC32 Board Reference Manual	10/12/2012 4:05:04 PM	1MB