

chipKIT™ UNO32 and chipKIT MAX32 Development Platforms

Developed for the Arduino™ community.

Summary

The chipKIT™ UNO32 and MAX32 development boards are the first 32-bit microcontroller-based platforms that are compatible with existing Arduino™ hardware and software.

Application Examples

The chipKIT platform allows hobbyists and academics from many disciplines, such as mechanical engineering, computer science and artists to develop original embedded applications easily and quickly including:

- Motor Control
- LCD Display
- Wired and Wireless Communications
- LED Matrix Control
- Sensor Networks

Key Features

- Application development using an environment based on the original Arduino IDE, modified to support PIC32 devices while still supporting the original Arduino line. Leverages existing code examples, tutorials and resources.
- Pin-out compatibility with many existing Arduino shields
- Higher performance at a lower price-point than existing solutions
- Advanced capabilities including:
 - Integrated USB (Device/Host, OTG)
 - Integrated Ethernet
 - CAN



Getting Started

chipKIT UNO32 (TDGL002)



- Features PIC32MX320F128H MCU
- Compatible footprint with the Arduino Uno
- Compatible with 3.3V shields and software examples

chipKIT MAX32 (TDGL003)



- Features PIC32MX795F512L MCU
- Compatible footprint with the Arduino Mega2560
- Provides advanced communications and memory

Visit www.microchip.com/chipkit or www.digilentinc.com/chipkit to purchase hardware and download FREE software.

Feature Comparison

Feature	Core	Performance	Program Memory (KB)	RAM (KB)	Additional Features
chipKIT™ UNO32	32-bit	80 MHz	128	16	PMP/PSP/RTCC
chipKIT MAX32	32-bit	80 MHz	512	128	USB, 2x CAN, Ethernet, DMA, RTCC

Compatible Shields from Digilent Inc.	Shield Features
 chipKIT™ Basic I/O Shield	4 switches, 4 buttons, I ² C™ temperature sensor, 256 Kbit I ² C EEPROM, 128x32 OLED display, 4 open drain channels, 1 potentiometer, 8 LEDs
 chipKIT Network Shield	Ethernet PHY and transformer, USB OTG, 32 KHz oscillator, 256 Kbit I ² C EEPROM, 2 CAN interfaces



MICROCHIP

Microchip Technology Incorporated