

# 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](http://www.microchip.com/chipkit) or [www.digilentinc.com/chipkit](http://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 <sup>2</sup> C™ temperature sensor, 256 Kbit I <sup>2</sup> 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 <sup>2</sup> C EEPROM, 2 CAN interfaces



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**Microcontrollers • Digital Signal Controllers • Analog • Memory • Wireless**

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