

**Product Information**

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Device Database®

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Evaluation Software

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 - C166 Evaluation Software
 - C251 Evaluation Software
 - C51 Evaluation Software

Compliance Testing

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Distributors

- Overview

Select Your Country



Select your country for a list of the distributors available in your area.

NXP (founded by Philips) LPC2103

The NXP (founded by Philips) LPC2103 is an ARM7TDMI-S based high-performance 32-bit RISC Microcontroller with Thumb extensions 10-bit A/D converters provides eight analog inputs, Two 32-bit timers/external event counters, Two 16-bit timers/external event counters, Low power Real-Time Clock (RTC) with dedicated 32 kHz clock input, Multiple serial interfaces including two UARTs (16C550), two Fast I2C-buses (400 kbit/s), SPI and SSP with buffering and variable data length capabilities 32KB on-chip Flash ROM with In-System Programming (ISP) and In-Application Programming (IAP), 8KB RAM.

[\[Distributors\]](#)

Evaluation Software

- [Keil Development Tools for ARM](#)
Keil, An ARM Company

Development Tools

Compiler, Assembler, Linker, Debugger

- [RealView Microcontroller Development Kit](#)
Keil, An ARM Company

Data Sheets



[Data Sheet](#)
176,033 bytes



[User Manual](#)
6,049,513 bytes



Application Notes

- [LPC2000 Application Notes](#)
NXP (Founded by Philips)

Header Files

- [LPC2103.H](#)
17,588 bytes

Example Code

- [LPC2104/05/06 Watchdog Example](#)

Evaluation Boards

- [MCB2103](#)
Keil, An ARM Company

Emulators

- [BICEPS-ARM](#)
Brendes Datentechnik GmbH
- [Tanto ARM](#)
Hitex
- [iC3000 ActiveEmulator](#)
iSystem
- [iC4000 ActiveEmulator](#)
iSystem
- [TRACE32-ICD](#)
Lauterbach
- [EMUL-ARM-PC](#)
Nohau Corporation
- [Universal Debug Engine](#)
PLS
- [J-Link ARM](#)
SEGGER Microcontroller
- [JTAGjet-ARM-USB](#)
Signum Systems
- [JTAGjet-Trace](#)
Signum Systems

JTAG Debuggers

- [ULINK](#)
Keil, An ARM Company

Simulated Features

The following on-chip peripherals are simulated by the Keil Software [uVision Debugger](#).

- [APB Divider](#)
- [External Interrupts](#)
- [General Purpose Input/Output \(GPIO\): 32-Bit, Fast Interface](#)
- [General Purpose Input/Output \(GPIO\): 32-Bit, Slow Interface](#)
- [I²C Interface](#)
- [Memory Accelerator Module](#)
- [Memory Mapping Control](#)
- [Phase Locked Loop \(PLL\)](#)
- [Pin Connect Block](#)
- [Power Control](#)
- [Real Time Clock](#)
- [Reset Source](#)
- [SPI Interface](#)
- [System Control & Status](#)
- [Timers 0-3](#)
- [UART 0](#)
- [UART 1](#)
- [Vectored Interrupt Controller \(VIC\)](#)
- [Watchdog Timer](#)

The following on-chip peripherals are **not** simulated.

- Pulse Width Modulator

Real-Time OS

- [CMX-RTX RTOS](#)
CMX Systems
- [InfaBed](#)
Embedded Artists
- [ThreadX](#)
Express Logic, Inc
- [NicheLite Ultra Compact TCP/IP Networking](#)
InterNiche Technologies, Inc.
- [NicheStack IPv4 Device Networking Stacks](#)
InterNiche Technologies, Inc.
- [NicheStack PPP Device Networking Protocol](#)
InterNiche Technologies, Inc.
- [NicheTask](#)
InterNiche Technologies, Inc.
- [RL-ARM Real-Time Library](#)
Keil, An ARM Company
- [uC/OS-II](#)
Micrium Technologies Corporation
- [SMX RTOS](#)
Micro Digital, Inc.
- [Salvo for ARM](#)
Pumpkin, Inc.
- [RTXC Quadros - Embedded RTOS](#)
Quadros Systems, Inc.
- [embOS](#)
SEGGER Microcontroller

AGDI Drivers

The following AGDI Drivers are available for the Keil Software [uVision Debugger](#).

- [LabVIEW Embedded](#)
National Instruments
- [embOS/IP](#)
SEGGER Microcontroller

- [ULINK-ME](#)
Keil, An ARM Company
- [ULINK2](#)
Keil, An ARM Company
- [ULINKPro](#)
Keil, An ARM Company
- [J-Link ARM](#)
SEGGER Microcontroller

FLASH Utilities

- [FLASHER](#)
Bluewind
- [ULINK](#)
Keil, An ARM Company
- [ULINK-ME](#)
Keil, An ARM Company
- [ULINK2](#)
Keil, An ARM Company
- [ULINKPro](#)
Keil, An ARM Company
- [LPC2000 Flash ISP Utility](#)
NXP (Founded by Philips)
- [J-Link ARM](#)
SEGGER Microcontroller

Device Programmers

- [Dataman 448Pro+ Gang ISP Production Programmer](#)
Dataman Programmers Ltd.
- [Dataman 448Pro2 Super Fast Gang ISP Production Programmer](#)
Dataman Programmers Ltd.
- [Dataman 48Pro+ Universal ISP Programmer](#)
Dataman Programmers Ltd.
- [Dataman 48Pro2 Super Fast Universal ISP Programmer](#)
Dataman Programmers Ltd.
- [Dataman 848Pro Stand-Alone Production Programmer](#)
Dataman Programmers Ltd.
- [Dataman 848Pro2 Super Fast Stand-Alone Programmer](#)
Dataman Programmers Ltd.
- [BeeHive4+](#)
ELNEC
- [BeeHive8S](#)
ELNEC
- [BeeProg+](#)
ELNEC

Consultants

The following [consultants](#) have experience with this device.

- [David Bruno](#)
United States
- [Alfa Sprint Service](#)
Belgium
- [CNC International](#)
United States
- [Eden Electronics Design Ltd](#)
United Kingdom
- [Everest Infocom Pvt Ltd](#)
India
- [Firmware Labs](#)
United States
- [Hitex \(UK\) Ltd.](#)
United Kingdom
- [IBS-Systemtechnik](#)
Germany
- [Select Software Limited](#)
United Kingdom
- [SoftwareFlair Inc.](#)
United States
- [Tecnologix s.r.l.](#)
Italy
- [World Educational Services](#)
United States