mbed

mbed - Product Summary

The mbed Microcontroller is a tool for rapid prototyping with microcontrollers.
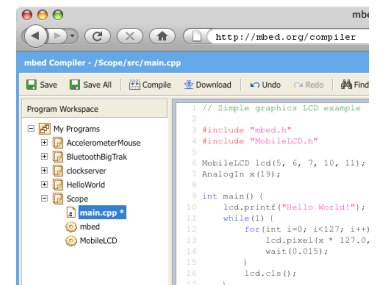
The mbed Microcontroller and supporting http://mbed.org website provides a fast, low-risk approach to prototyping of microcontroller-based systems. The mbed tools have integral hardware and software support for the NXP LPC1768 ARM® Cortex™-M3 based MCU, making cutting-edge microcontroller technology accessible to a wide audience.

New users can get started with mbed tools in 60 seconds, by plugging in an mbed microcontroller, going to the mbed.org website to sign up, and downloading and running a "Hello World!" binary just like saving to a USB flash drive. Compiling a first program takes only 60 seconds more; Launch the browser-based compiler, create a new template project, click 'compile' to build and download the binary - there is nothing to configure or install, and everything works on Windows, Mac, or Linux.

The mbed NXP LPC1768 features:

- 40-pin DIP, 0.1" pitch form-factor
- 100MHz NXP LPC1768 MCU with ARM® Cortex™-M3 Core
- 64KB RAM, 512KB FLASH
- Ethernet, USB, 2xSPI, 2xI2C, 2xCAN 3xUART, 6xPWM, 6xADCs, 1xDAC
- USB drag 'n' drop programming
- High-level C++ libraries
- Online browser-based toolchain

For experienced users, mbed provides a fast way to create proof-of-concept designs in the early stages of development. For developers using older microcontrollers, discrete logic, or even those new to the industry, mbed removes the barriers to the world of modern 32-bit microcontrollers.

For more information, see the http://mbed.org website.

mbed - Product Details

- Product Part Number : mbed-005.1
- Microcontroller: NXP LPC1768, ARM® Cortex™-M3 (32-bit RISC), up to 100MHz
- Interfaces: Ethernet, USB, 2xI2C, 2xSPI, 2xCAN, 3xUART, 6xPWM, 6xADC, 1xDAC
- Form-factor: 40-pin DIP package, 0.1" pitch, 0.9" spacing, 44mm x 26mm
- Package Contents: mbed NXP LPC1768 Microcontroller, License Key for Online Tools, USB cable, Setup Guide, Pinout Card, Promotional Card and Sticker
- Package Details: 163mm x 110mm x 32mm, 0.1kg
- Manufacturer: ARM, RoHS: Yes, Country of Origin: Slovenia

For additional details or for further support, see http://mbed.org or contact support@mbed.org

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