

POLOLU ARM MBED NXP LPC1768 DEVELOPMENT BOARD

USER'S GUIDE

FEATURES



- Can be powered by USB or an external 4.5 – 9 V supply (supply voltages up to 12V should generally be safe, but at these voltages the regulator may start to overheat if used to power external components)
- Compact module: 54 mm × 26 mm
- Convenient form-factor: 40-pin DIP (0.9" row spacing), 0.1" pitch
- Drag-and-drop programming, with the board represented as a USB drive
- Best-in-class Cortex-M3 hardware
 - 96 MHz ARM with 32 KB of SRAM, 512 KB of Flash
 - Ethernet, USB OTG
 - SPI, I2C, UART, CAN
 - GPIO, PWM, ADC, DAC, DMA

- Easy-to-use, free online tools
 - Web-based C/C++ programming environment
 - Uses the ARM RealView compile engine
 - API-driven development using libraries with intuitive interfaces
- Comprehensive help and online community
- On-board LEDs can be used for feedback, and a serial port over the USB connection allows for printf-style debugging

GETTING STARTED

Getting started is as simple as using a USB Flash drive. Simply connect the mbed NXP LPC1768 board to a Windows, Mac, or Linux computer and it will automatically appear as a USB drive. Follow the link on the board to connect to the **mbed website**, where you can sign up and begin designing. There are no drivers to install or setup programs to run. Getting started is so easy that you can have a “Hello World!” program running in as little as five minutes.

The mbed development board includes the necessary USB A to mini-B cable, a printed quickstart guide, and two business cards that contain a life-size pinout diagram for the mbed