

Art. EA-XPR-301

[High Resolution Photos]

LPC812 MAX EXPERIMENT KIT

The **LPC812 MAX Experiment Kit** has been created as a guided tour to learn embedded programming with the **mbed framework** and the NXP's LPC800 microcontroller family with Cortex-M0+ cores. The experiments are performed on a breadboard for maximum flexibility and ease of use.

The kit **requires** an **LPC812 MAX board**. This must be **bought separately**.

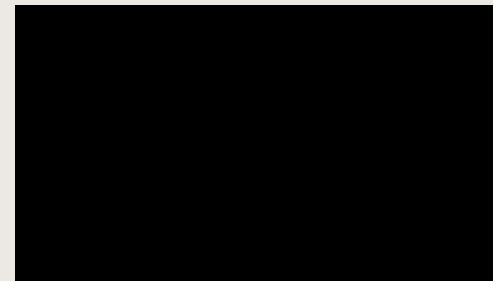
All experiments are based on the **LPC812 MAX board**, but the experiments can easily be ported to other mbed platforms.

All **documentation** about the experiments is on-line on the **mbed.org** site.

The kit is perfect for:

- **professionals** that want to learn the **mbed framework** .
- **students and hobbyists** that want to learn more about embedded program development and **programming microcontrollers** with the **mbed framework**.
- **University professors** that want to have an **education platform**. The extensive on-line experiment manual can be used as-is or as a base for developing more specific lecture experiments.

Introduction Video



SPECIFICATION

LPC812 MAX Experiment Kit

Components included in the kit are:

- 4x Red LEDs
- 4x Green LEDs

- 4x Yellow LEDs
- 2x Trimming potentiometers
- 3x Push-buttons
- Light sensor (analog)
- Temperature sensor (analog)
- 7-segment LED
- E2PROM with SPI interface
- L293D step motor driver
- Piezo buzzer
- Shift register
- 2x servo connectors (1x3 pin list, male). Note that servos are not included.
- Miscellaneous resistors, diodes and transistors
- Breadboard with cables

DOCUMENTATION AND RESOURCES

All **documentation** about the experiments is on-line on the **mbed.org** site.

INCLUDED IN KIT

- One component kit (60+ components)
- 2x16 character LCD
- Step motor
- Breadboard
- Prototype cables (male-to-male)

RELATED PRODUCTS



LPC800 / LPC812 MAX Board

Order number: EA-XPR-300

FAQ

- **How do I get the schematic?**
- **Are your boards RoHS 2 compatible?**
- **What chip revision are your boards using?**
- **Is the design files available (schematic, layout, BOM and Gerber files)?**
- **What is the warranty for your boards?**
- **Where is the serial number?**
- **Do you have high resolution photos of your products?**
- **Do you have a long-term commitment to production and availability of your boards?**
- **I cannot download the manuals or files in general. What to do?**
- **How to erase flash on devices when JTAG/SWD interface accidentally disabled or PLL programmed wrongly by application program that is already in flash?**
- **Which free graphical libraries exist for NXP's processors?**
- **How do I create an LPC-LINK? ...so that I can use the LPCXpresso IDE in full when developing for my own design.**

USEFUL INFORMATION

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