

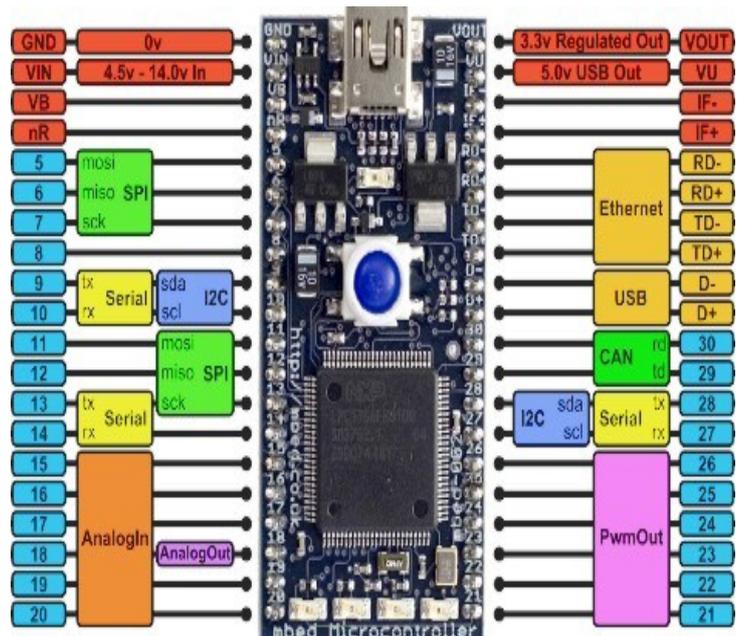


NXP - OM11043 - MCU - Prototyping Board

Product Overview:

The embed NXP LPC1768 board lets you create prototypes without having to work with low-level microcontroller details, so you can experiment and iterate faster than ever. Designers compose and compile embedded software using a browser-based IDE, then download it quickly and easily, using a simple drag-and-drop function, to the board's NXP Cortex-M3 microcontroller LPC1768.

Engineers new to embedded applications can use the board to prototype real products incorporating microcontrollers, while experienced engineers can use it to be more productive in early stages of development. The embed tools are designed to let you try out new ideas quickly, in much the same way that an architect uses a pencil and paper to sketch out concepts before turning to an advanced CAD program to implement a design.



Key Features:

- Convenient form-factor: 40-pin DIP, 0.1-inch pitch
- Drag-and-drop programming, with the board represented as a USB drive
- Best-in-class Cortex-M3 hardware
 - 100 MHz ARM with 64 KB of SRAM, 512 KB of Flash
 - Ethernet, USB OTG
 - SPI, I2C, UART, CAN
 - GPIO, PWM, ADC, DAC
- Easy-to-use online tools
 - Web-based C/C++ programming environment
 - Uses the ARM Real View compile engine
 - API-driven development using libraries with intuitive interfaces

- Comprehensive help and online community

Ordering Information:

Products:

| Part Number | Manufacturer | Farnell P/N | Newark P/N |
|-------------|--------------|-------------|------------|
| OM11043 | NXP | 1761179 | 33R0887 |

Associated Products:

| Part Number | Manufacturer | Description | Farnell P/N | Newark P/N |
|---------------|--------------|--|-------------|------------|
| LPC1764FBD100 | NXP | ARM Cortex-M3 microcontroller with 128KB flash, 32KB SRAM, 10/100 Ethernet, 2 CAN, 12-bit ADC | 1718546 | 15R1837 |
| LPC1765FBD100 | NXP | ARM Cortex-M3 microcontroller with 256KB flash, 64KB SRAM, USB 2.0 Host/Device/OTG, 2 CAN, I ² S, 12-bit ADC, 10-bit DAC | 1718547 | 15R1838 |
| LPC1766FBD100 | NXP | ARM Cortex-M3 microcontroller with 256KB flash, 64KB SRAM, 10/100 Ethernet, USB 2.0 Host/Device/OTG, 2 CAN, I ² S, 12-bit ADC, 10-bit DAC | 1718548 | 15R1839 |
| LPC1768FBD100 | NXP | ARM Cortex-M3 microcontroller with 512KB flash, 64KB SRAM, 10/100 Ethernet, USB 2.0 Host/Device/OTG, 2 CAN, I ² S, 12-bit ADC, 10-bit DAC | 1718549 | 15R1840 |

Similar Products:

| Part Number | Manufacturer | Description | Support Device | Farnell P/N | Newark P/N |
|-------------|--------------|---------------------------------------|----------------|-------------|------------|
| OM11042 | NXP | Rapid prototyping for the LPC2368 MCU | LPC2368 | 1761178 | 33R0886 |

Document List:

Datasheets:

| Part Number | Description | Size |
|-------------|-----------------------------------|-------|
| LPC1768 | LPC1768 Datasheet | 946KB |

Application Notes:

| File Name | Size |
|---|-------|
| IEC 60601-1-8 audible alert generator using the LPC1700 | 649KB |
| LPC1700 Ethernet MII Management (MDIO) via software | 256KB |
| LPC1700 RTC hardware auto calibration | 337KB |
| LPC1700 secondary USB boot loader | 771KB |
| LPC1700 timer triggered memory to GPIO data transfer | 163KB |
| Migrating to the LPC1700 series | 615KB |
| Porting uIP1.0 to LPC1700 | 365KB |
| Using Code Read Protection in LPC1700 | 241KB |

Hardware & Software:

| File Name | Size |
|--------------------------------------|--------|
| Errata sheet LPC1758 | 42.1KB |