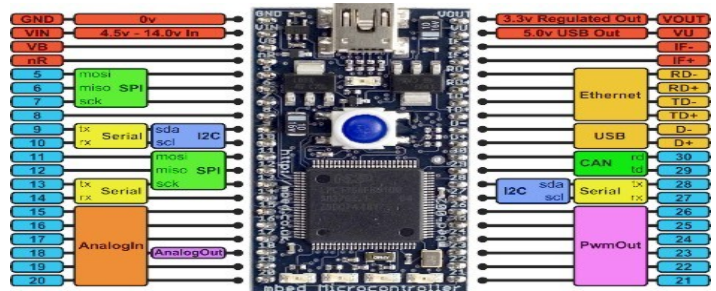# NXP - OM11042 - MCU - Prototyping Board

Product Overview:

The embed module is a new community-based embedded development tool featuring the NXP LPC2368 microcontroller. It allows you to create, compile, and download embedded software for NXP's LPC236x series of MCUs using a browser-based GUI. There is no software to install — everything is online, even the compiler.

Key Features:

- 40-pin DIP, 0.1" pitch
- Programmed via USB
- 60MHz ARM, 32KB RAM, 512KB flash
- Ethernet, USB slave
- 2xSPI, 2xI2C, 3xUART, 1xCAN
- GPIO, 6xPWM, 6xADCs, 1xDAC
- C++ libraries and tool chain

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
OM11042	NXP	1761178	33R0886

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
LPC2364FBD100	NXP	Microcontroller with 128KB flash, USB 2.0, 10/100 Ethernet, I^2S, real-time emulation, dual AHB bus architecture	1524643	74M2701
LPC2366FBD100	NXP	Microcontroller with 256KB flash, USB 2.0, 10/100 Ethernet, I^2S, real-time emulation, dual AHB bus architecture	1524644	74M2702
LPC2368FBD100	NXP	Microcontroller with 512KB flash, USB 2.0, 10/100 Ethernet, SD/MMC, I^2S, real-time emulation, dual AHB bus architecture	1524645	74M2703

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
OM11043	NXP	Rapid prototyping for the LPC1768 MCU	LPC1768	1761179	33R0887

Document List:

Datasheets:

Part Number	Description	Size
LPC2368	LPC2368 data sheet	276KB

Application Notes:

File Name	Size
LPC23xx User Manual (UM10211)	3.93MB
AN10799 Porting uIP1.0 to LPC23xx/24xx (with Software), V2	433KB
AN10835 Secondary boot loader for code updates using IAP	719KB
AN10778 PCB Layout Guidelines for NXP MCUs in BGA Packages	164KB

AN10675 Interfacing 4-wire and 5-wire resistive touch screens to the LPC2300	329KB
AN10759 USB secondary ISP boot loader for LPC23xx	394KB
AN10744 Ethernet Secondary ISP Boot loader (with Flash Utility and Boot loader Software)	0.98MB
AN10722 RC5 Decoder Using the LPC2000	150KB
AN10711 USB Secondary ISP Boot loader with Source Files	736KB
AN10689 Full-duplex software UART for LPC2000	2.03MB
AN10674 NXP LPC2000 CAN driver with Full CAN mode (with software)	657KB
AN10687 IEC 60601-1-8 audible alert generator using the LPC2000	639KB
AN10403 Connecting Ethernet Interface with LPC2000	247KB
AN10576 Migrating to the LPC2300/2400 family	195KB
AN10406 Accessing SD/MMC Card using SPI on LPC2000	144KB
AN10302 Using the Philips LPC2000 Flash Utility with the Keil MCB2100 and IAR LPC210x Kick start Evaluation Boards	628KB
AN10356 Entering ISP Mode from User Code	113KB

Hardware & Software:

File Name	Size
Sample Code Bundle for LPC23xx/LPC24xx Peripherals using Keil's µVision	730KB
IIS - USB Audio Demo	7.83MB
TN0700x Sample Code	52.3KB
Write/Erase Security Library V2.00 for LPC23xx, LPC24xx	104KB