

Products

Services

Support

Projects

Web Shop

LPC2138 Education Board

Products

- > Board Comparison Chart
- » Developer's Kits
- » OEM Boards
- » QuickStart Boards
- **↓ Education Boards**
- > LPC2103 Edu board
- > LPC2138 Edu board
- > LPC2148 (v3) Edu board
- > Experiment board
- > LPC2148 (v2) Edu board
- > Expansion Ethernet
- > Expansion Prototype
- > Expansion MP3
- > Expansion UART
- » LPCXpresso & mbed
- » Displays
- » Tools
- » Accessories



Price Information

Volume discount available for 25 boards, or more, see web shop

Art.no: EA-EDU-010 Buy

Experiment Board

An Experiment expansion board is available, see Related Products tab.

Embedded Artists' **LPC2138 Education Board** is the perfect board if you want to experiment with own hardware on the breadboard and get to know the NXP LPC2xxx family in general and the LPC2138 in particular.

Related Products

FAQ

LPC2138 Education Board NXP's ARM7TDMI LPC2138 microcontroller Processor Program Flash 512 KB Data Memory 32 KB Clock Crystals • 14.7456 MHz crystal • 32.768 kHz RTC crystal On-board • Audio interface via 3.5mm headphone and microphone connectors UART-to-USB bridge interface on UART #0 (based on FTDI FT2232 chip)
 OpenOCD compatible embedded JTAG interface (based on FTDI FT2232 chip)
 Analog input (via trimmer potentiometer) Peripherals Digi/MaxStream XBee™ module interface (module not included) • RGB-LED, each color can be controlled via PWM signal 5 LEDs (on P0.14 and P1.20-23)
5 Pushbuttons (on P0.14 and P1.16-19)
Reset pushbutton + LED

Overview

Specification

2 Kbit I2C-E2PROM50 pos expansion connector

MCU

Dimensions	127 x 120 mm
Power	On-board low-dropout voltage and reset generation • Generates +3.3V • +3.3V available for external circuits, up to 400 mA • Powered via USB connector.
Connectors	 mini-B USB, USB-to-serial bridge interface JTAG (can override the embedded OpenOCD interface) 32-pos expansion connector to breadboard experiment area 50-pos expansion connector
Other	 Simple and automatic program download (ISP) via USB-serial channel. Circuit that automatically controls the bootloader from USB-serial channel Four layer PCB (FR-4 material) for best noise immunity Delivered with 50 pos flat cable for explansion connector Delivered with component box and bread board cables

© Embedded Artists

Legal Information

Privacy Statement

The Art of Embedded Systems Development - made Easy $^{\mathrm{TM}}$