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LPC2138 Education Board

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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.

- Overview
- Specification**
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LPC2138	Education Board		
<i>Processor</i>	NXP's ARM7TDMI LPC2138 microcontroller		
<i>Program Flash</i>	512 KB		
<i>Data Memory</i>	32 KB		
<i>Clock Crystals</i>	<ul style="list-style-type: none"> 14.7456 MHz crystal 32.768 kHz RTC crystal 		
<i>On-board Peripherals</i>	<ul style="list-style-type: none"> 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) 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 2 Kbit I2C-E2PROM 50 pos expansion connector 		

<i>Dimensions</i>	127 x 120 mm
<i>Power</i>	On-board low-dropout voltage and reset generation <ul style="list-style-type: none">• Generates +3.3V• +3.3V available for external circuits, up to 400 mA• Powered via USB connector.
<i>Connectors</i>	<ul style="list-style-type: none">• 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
<i>Other</i>	<ul style="list-style-type: none">• 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 expansion connector• Delivered with component box and bread board cables