



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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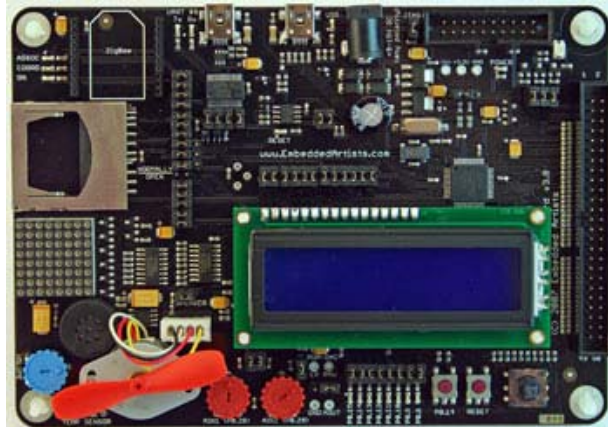
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LPC2148 Education Board



Embedded Artists' **LPC2148 Education Board** is the perfect board if you want to start learning about ARM7 microcontrollers. The board contains many interesting and useful experiments.

Price Information

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

Art.no: **EA-EDU-001** [Buy](#)

Experiment Board

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

Overview	Specification	MCU	Related Products	Resources	FAQ
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LPC2148 Education Board

<i>Processor</i>	NXP's ARM7TDMI LPC2148 microcontroller
<i>Program Flash</i>	512 KB
<i>Data Memory</i>	32+8 KB
<i>Clock Crystals</i>	<ul style="list-style-type: none"> • 12.0000 MHz crystal for maximum execution speed (5x PLL = 60 MHz CPU clock) • 32 KHz RTC crystal
<i>On-board Peripherals</i>	<ul style="list-style-type: none"> • 2x16 character LCD with background light • Joystick switch • UART-to-serial bridge interface on UART # 0 • XBee™ module interface (module not included) • USB 2.0 device interface (on LPC2148) • RGB-LED, each color can be controlled via PWM signal • 8 LEDs • Pushbutton on P0.14 • 8x8 LED matrix, controlled via shift registers in the SPI bus • Speaker on analog output (P0.25) • MMC/SD memory card interface • Step motor control • Temperature sensor (LM75) • 2 Analog inputs • Low-pass filtering of PWM signal • 1 Analog output • Reset button
<i>Dimensions</i>	156 x 110 mm
<i>Power</i>	On-board low-dropout voltage and reset generation <ul style="list-style-type: none"> • Generates +3.3V (and +5V supply if external 9-15VDC power supply) • +3.3V available for external circuits, up to 300 mA • Power supply: 9-15 VDC, from 2.1 mm power connector, or directly from USB connectors.
<i>Connectors</i>	<ul style="list-style-type: none"> • mini-B USB, USB-to-serial bridge interface • mini-B USB, LPC2148 device interface • MMC/SD memory card connector • JTAG • 50 pin expansion connector • 2.1 mm power supply connector
<i>Other</i>	<ul style="list-style-type: none"> • 2 Kbit I2C E2PROM for storing non-volatile parameters • 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

Expansion Connector

The 50 pos expansion connector can be used for own experiments. The following signals are available on the expansion connector:

- P0.0 - P0.23, P0.25, P0.28-P0.31
- P1.16 - P1.25
- Reset
- Vref
- Vbat
- Power; VCC (+3.3V), GND, and Vin (+5V)

The *Experiment Expansion Board* can be bought separately for more interesting and useful experiments. For details about the board, see the *Experiment Expansion Board* page.