



About Us

Products

Services

Support

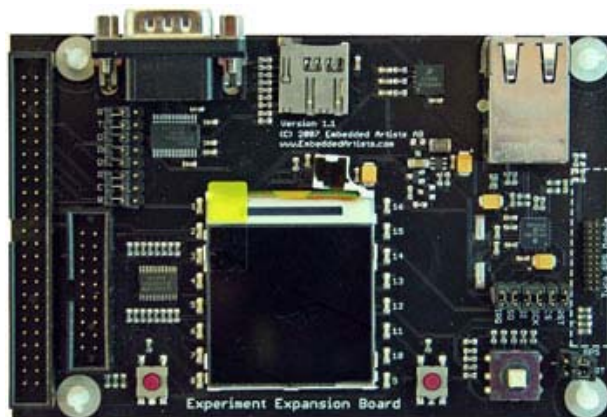
Projects

Web Shop

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

## Experiment Expansion Board



If you would like to have even more experiments added to your LPC2103, LPC2138 or LPC2148 Education Board the Embedded Artists' **Experiment Expansion Board** is the choice for you.

**Price Information**

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

Art.no: **EA-EDU-011** [Buy](#)

**Note that this product is NOT compatible with LPC2148 Education Board v2.**

- Overview
- Specification**
- Related Products
- Resources
- FAQ

### Experiment Expansion Board

<i>Expansion Interface</i>	<ul style="list-style-type: none"> <li>LPC2103 Education Board - via the 20 pos expansion connector</li> <li>LPC2138 Education Board - via the 50 pos expansion connector</li> <li>LPC2148 Education Board - via the 50 pos expansion connector</li> </ul>
<i>On-board Peripherals</i>	<ul style="list-style-type: none"> <li>128x128 color LCD (interface via SPI bus) with backlight control</li> <li>3-axis accelerometer (MMA7260 from Freescale)</li> <li>10M Ethernet interface (ENC28J60 from Microchip, interface via SPI bus)</li> <li>Joystick switch</li> <li>2 push buttons</li> <li>16 LEDs controlled via I2C (PCA9532)</li> <li>uSD/transflash connector (interface via SPI bus)</li> <li>Full-signal RS232 modem</li> <li>Interface to GPS module (A1035-C from Tyco Electronics). Note that GPS module is not included.</li> </ul>
<i>Dimensions</i>	122 x 78 mm
<i>Power</i>	Powered with +3.3V from expansion connectors (either 20- or 50-pos connector). Needs at least 200 mA.
<i>Connectors</i>	<ul style="list-style-type: none"> <li>9-pos male DSUB (RS232 interface)</li> <li>RJ45 connector (Ethernet interface)</li> <li>uSD/transflash memory card connector</li> <li>interface to GPS module ()</li> <li>20 pin input expansion connector</li> <li>50 pin input expansion connector</li> </ul>
<i>Other</i>	<ul style="list-style-type: none"> <li>Four layer PCB (FR-4 material) for best noise immunity</li> </ul>