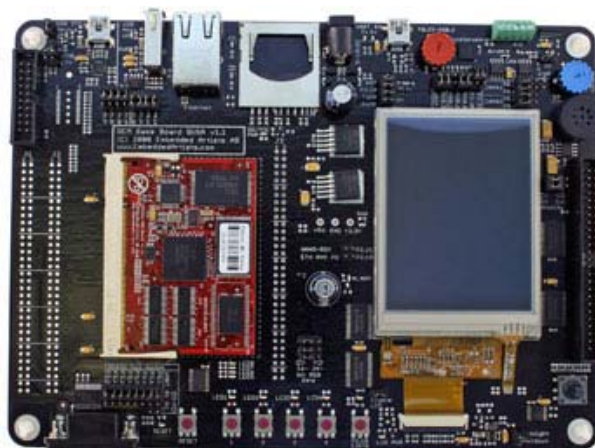




# LPC2478 Developer's Kit

## Products

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Embedded Artists' **LPC2478 Developer's Kit** lets you get up-and-running quickly with the LPC2478 OEM Board. The LPC2478 OEM Board is equipped with NXP's **ARM7TDMI-S** based LPC2478 microcontroller suitable for a wide range of applications that requires advanced communication and high quality graphic displays.

**Price Information**

32-bit databus

Art.no: **EA-OEM-203** Buy

**Currently out-of-stock**

Expected delivery date:  
**2011-07-18**

**Price Information**

16-bit databus

Art.no: **EA-OEM-204** Buy

Overview **Specification** MCU Related Products Resources Included in Kit FAQ

<b>LPC2478</b>	<b>OEM Board</b>					
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<i>Processor</i>	NXP's ARM7TDMI LPC2478 microcontroller in BGA package
<i>Program Flash</i>	128 MB NAND FLASH, 4 MB NOR FLASH + 512 kB internal
<i>Data Memory</i>	32 MB SDRAM + 96 KB internal <b>32- or 16-bit data bus to SDRAM</b>
<i>Ethernet</i>	100/10M Ethernet interface based on National DP83848 Ethernet PHY
<i>Clock Crystals</i>	<ul style="list-style-type: none"> <li>• 12.000 MHz crystal for CPU</li> <li>• 32.768 kHz crystal for RTC</li> </ul>
<i>Dimensions</i>	66 x 48 mm
<i>Power</i>	<ul style="list-style-type: none"> <li>• +3.3V powering</li> </ul>
<i>Connectors</i>	<ul style="list-style-type: none"> <li>• 200 pos expansion connector (as defined in SODIMM standard), 0.6mm pitch</li> </ul>
<i>Other</i>	<ul style="list-style-type: none"> <li>• 256 Kbit I2C E2PROM for storing non-volatile parameters</li> <li>• Buffered 32- or 16-bit databus</li> </ul>
<b>QVGA Base Board</b>	
<i>Display</i>	<ul style="list-style-type: none"> <li>• 3.2 inch QVGA TFT color LCD with touch screen panel</li> </ul>
<i>Connectors</i>	<ul style="list-style-type: none"> <li>• 200 pos SODIMM connector for OEM Board</li> <li>• Expansion connector with all LCD controller signals, for custom displays</li> <li>• Expansion connector with all cpu signals</li> <li>• Ethernet connector (RJ45)</li> <li>• MMC/SD interface &amp; connector</li> <li>• CAN interface &amp; connector</li> <li>• JTAG connector</li> <li>• Pads for ETM connector</li> </ul>
<i>Interfaces</i>	<ul style="list-style-type: none"> <li>• USB OTG interface &amp; connector</li> <li>• USB host interface &amp; connector</li> <li>• Full modem RS232 on UART #1 (cannot be used on 32-bit databus cpu boards, but Rx/D2/TxD2 can alternatively be connected to the RS232 interface)</li> </ul>

- Dual CAN interface & connector
  - IrDA trceiver interface
- Power*
- Power supply, either via USB or external 9-15V DC
  - 0.3F capacitor backup for RTC and LED on ALARM output
- Expansion*
- Expansion connector with all LCD controller signals, for custom displays
  - Expansion connector with all cpu signals
- Other*
- 5-key joystick
  - 3 axis accelerometer
  - Push-button key and LED on P2.10
  - 4 push-button keys via I2C
  - 8 LEDs (via I2C)
  - 1 Analog inputs
  - USB-to-serial bridge on UART #0, and ISP functionality
  - Reset push-button and LED
  - Speaker output (DAC)
  - 240x150 mm in size