



LPC2478 Developer's Kit

Products

- > Board Comparison Chart
- ↓ Developer's Kits
 - > LPC1788 Kit
 - > LPC2468 Kit
 - > **LPC2478 Kit**
 - > LPC3131 Kit
 - > LPC3141 Kit
 - > LPC3152 Kit
 - > LPC3250 Kit
- » OEM Boards
- » QuickStart Boards
- » Education Boards
- » LPCXpresso & mbed
- » Displays
- » Tools
- » Accessories



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

LPC2478	OEM Board				
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<i>Processor</i>	NXP's ARM7TDMI LPC2478 microcontroller in BGA package
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<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 32- or 16-bit data bus to SDRAM
<i>Ethernet</i>	100/10M Ethernet interface based on National DP83848 Ethernet PHY
<i>Clock Crystals</i>	<ul style="list-style-type: none"> 12.000 MHz crystal for CPU 32.768 kHz crystal for RTC
<i>Dimensions</i>	66 x 48 mm
<i>Power</i>	<ul style="list-style-type: none"> +3.3V powering
<i>Connectors</i>	<ul style="list-style-type: none"> 200 pos expansion connector (as defined in SODIMM standard), 0.6mm pitch
<i>Other</i>	<ul style="list-style-type: none"> 256 Kbit I2C E2PROM for storing non-volatile parameters Buffered 32- or 16-bit databus
QVGA Base Board	
<i>Display</i>	<ul style="list-style-type: none"> 3.2 inch QVGA TFT color LCD with touch screen panel
<i>Connectors</i>	<ul style="list-style-type: none"> 200 pos SODIMM connector for OEM Board Expansion connector with all LCD controller signals, for custom displays Expansion connector with all cpu signals Ethernet connector (RJ45) MMC/SD interface & connector CAN interface & connector JTAG connector Pads for ETM connector
<i>Interfaces</i>	<ul style="list-style-type: none"> USB OTG interface & connector USB host interface & connector 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)

- 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