About Us	Products	Services	Support	Projects	Web Shop
Products	LPC214	8 Educatio	n Board		
oard Comparison Chart					Price Information
eveloper's Kits			12		Volume discount available for 2 boards, or more, see web sho
EM Boards			14		Art.no: EA-EDU-001 Buy
QuickStart Boards		and Han w			Experiment Board
ducation Boards					An Experiment expansion board available, see Related Products
C2103 Edu board	COCCUSATE : :				tab.
C2138 Edu board					
(v3) Edu board					
C2148 (v2) Edu board	- M	NOPO			
pansion - Ethernet		111: 1182 TR			
pansion - Prototype		~ () () ee []]			
pansion - MP3 pansion - UART	Embedded Artists' I	PC2148 Education Boa	rd is the perfect board	if you want to sta	rt learning about ARM7
PCXpresso & mbed	microcontrollers. Th	ne board contains many in	teresting and useful ex	periments.	-
isplays	Overview S	Decification MCU	Related Products	Resources	FAQ
ools	LPC2148 Edu	ucation Board			
Accessories	Processor	NXP's ARM7TDMI LPC2	148 microcontroller		
	Program Flash	512 KB			
	Data Memory	32+8 KB			
	Data Memory Clock Crystals	32+8 KB • 12.0000 MHz crystal (5x PLL = 60 MHz CPU • 32 KHz RTC crystal	for maximum execution J clock)	n speed	
	Data Memory Clock Crystals On-board Peripherals	32+8 KB • 12.0000 MHz crystal (5x PLL = 60 MHz CPI • 32 KHz RTC crystal • 2x16 character LCD v • Joystick switch • UART-to-serial bridge × Bee™ module interf • USB 2.0 device interf • RGB-LED, each color • 8 LEDs • Pushbutton on P0.14 • 8x8 LED matrix, cont • Speaker on analog ou • MMC/SD memory car • Step motor control • Temperature sensor • 2 Analog inputs • Low-pass filtering of I • 1 Analog output • Reset button	for maximum execution J clock) with background light interface on UART #0 ace (module not includ ace (on LPC2148) can be controlled via P rolled via shift register: tput (P0.25) d interface LM75)	n speed ed) WM signal s in the SPI bus	
	Data Memory Clock Crystals On-board Peripherals Dimensions	32+8 KB • 12.0000 MHz crystal (5x PLL = 60 MHz CPU • 32 KHz RTC crystal • 2x16 character LCD v • Joystick switch UART-to-serial bridge • XBee™ module interf • USB 2.0 device interf • USB 2.0 device interf • RGB-LED, each color • 8 LEDs • Pushbutton on P0.14 • 8x8 LED matrix, cont • Speaker on analog ou • MMC/SD memory car • Step motor control • Temperature sensor f • 2 Analog inputs • Low-pass filtering of f • 1 Analog output • Reset button 156 x 110 mm	for maximum execution J clock) with background light interface on UART #0 ace (on LPC2148) can be controlled via P colled via shift registers tput (P0.25) d interface LM75) WM signal	n speed ed) WM signal s in the SPI bus	
	Data Memory Clock Crystals On-board Peripherals Dimensions Power	32+8 KB • 12.0000 MHz crystal (5x PLL = 60 MHz CPI • 32 KHz RTC crystal • 2x16 character LCD v • Joystick switch • UART-to-serial bridge × KBee™ module interf • USB 2.0 device interf • USB 2.0 device interf • RGB-LED, each color • 8 LEDs • Pushbutton on P0.14 • 8x8 LED matrix, cont • Speaker on analog ou • MMC/SD memory car • Step motor control • Temperature sensor (• 2 Analog inputs • Low-pass filtering of 1 • 1 Analog output • Reset button 156 x 110 mm On-board low-dropout 1 • Generates +3.3V (an • +3.3V available for e • Power supply: 9-15 V	for maximum execution J clock) with background light interface on UART #0 ace (module not includ ace (on LPC2148) can be controlled via P rolled via shift register: tput (P0.25) d interface LM75) PWM signal voltage and reset gene d +5V supply if externa ternal circuits, up to 3 DC, from 2.1 mm pow	n speed ed) WM signal s in the SPI bus in the SPI bus al 9-15VDC power 300 mA er connector, or d	supply) irectly from USB connectors.
	Data Memory Clock Crystals On-board Peripherals Dimensions Power Connectors	32+8 KB • 12.0000 MHz crystal (5x PLL = 60 MHz CPU • 32 KHz RTC crystal • 2x16 character LCD v • Joystick switch • UART-to-serial bridge • XBee™ module interf • USB 2.0 device interf • USB 2.0 device interf • RGB-LED, each color • 8 LEDs • Pushbutton on P0.14 • 8x8 LED matrix, cont • Speaker on analog ou • MMC/SD memory car • Step motor control • Temperature sensor (• 2 Analog inputs • Low-pass filtering of I • 1 Analog output • Reset button 156 x 110 mm On-board low-dropout • Generates +3.3V (an • +3.3V available for e • Power supply: 9-15 V • mini-B USB, USB-to-s • mini-B USB, LPC2148 • MMC/SD memory car • JTAG • 50 pin expansion con • 2.1 mm power supply	for maximum execution J clock) with background light interface on UART #0 ace (module not includ ace (on LPC2148) can be controlled via P rolled via shift registers tput (P0.25) d interface LM75) PWM signal voltage and reset gene d +5V supply if externa- ternal circuits, up to 3 DC, from 2.1 mm pow verial bridge interface d evice interface d connector nector connector	n speed ed) WM signal s in the SPI bus ration al 9-15VDC power 300 mA er connector, or d	supply) irectly from USB connectors.

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 explansion 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.

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