Page 2

CPU, USB interface, Expansion connector, JTAG interface and USB-UART interface

Page 3

8LEDs, RGB-LED, SD/MMC memory card interface joystick, temperature sensor, RF-module interface

Page 4

I2C-e2prom with reset generation, 8x8 LED matrix, Step motor and power supply

Page 5

Analog inputs/output, 2x16 character LCD and audio output with speaker

UL = UnLoaded = normally not mounted component.

Default jumper settings are indicated in the schematic. However, always check jumper positions on actual boards since there is no guarantee that all jumpers are in default place.

Rev 3.0

Replaced epxansion connector to 50-pos with shoulder. Added 270 ohm series resistors for exp. conn. Replaced buzzer with audio output with speaker.

Rev 2.1

Added +5V voltage regulator (U15, D10, C41-42)

Rev 2.0

Changed RS232 UART interface to USB-UART interface Replaced DC-motor with step motor, added RF-module if.

Rev 1.1

Added pullsups on joystick pins
Possible to select SPI0/1 for SD memory card interface

Rev 1.0

Original revision



(C) Embedded Artists AB

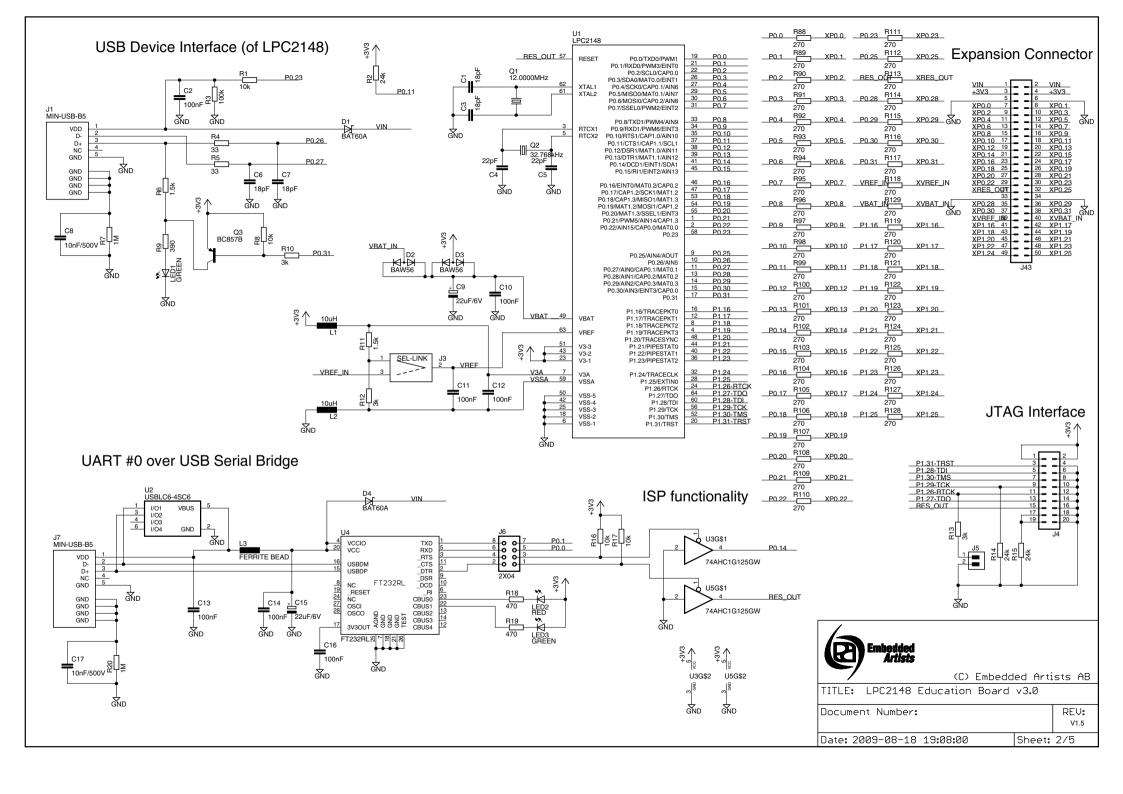
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Document Number:

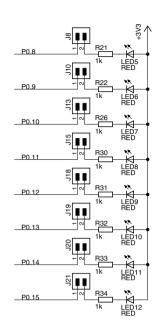
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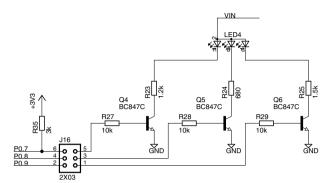
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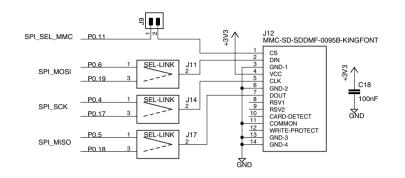
8 LEDs



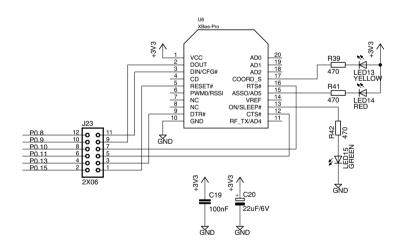
RGB-LED

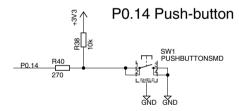


MMC/SD Memory Card Interface

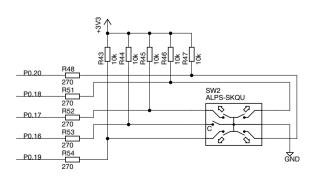


MaxStream XBee module

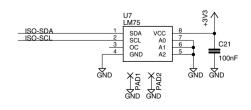


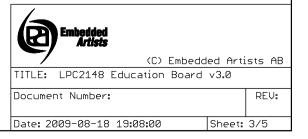


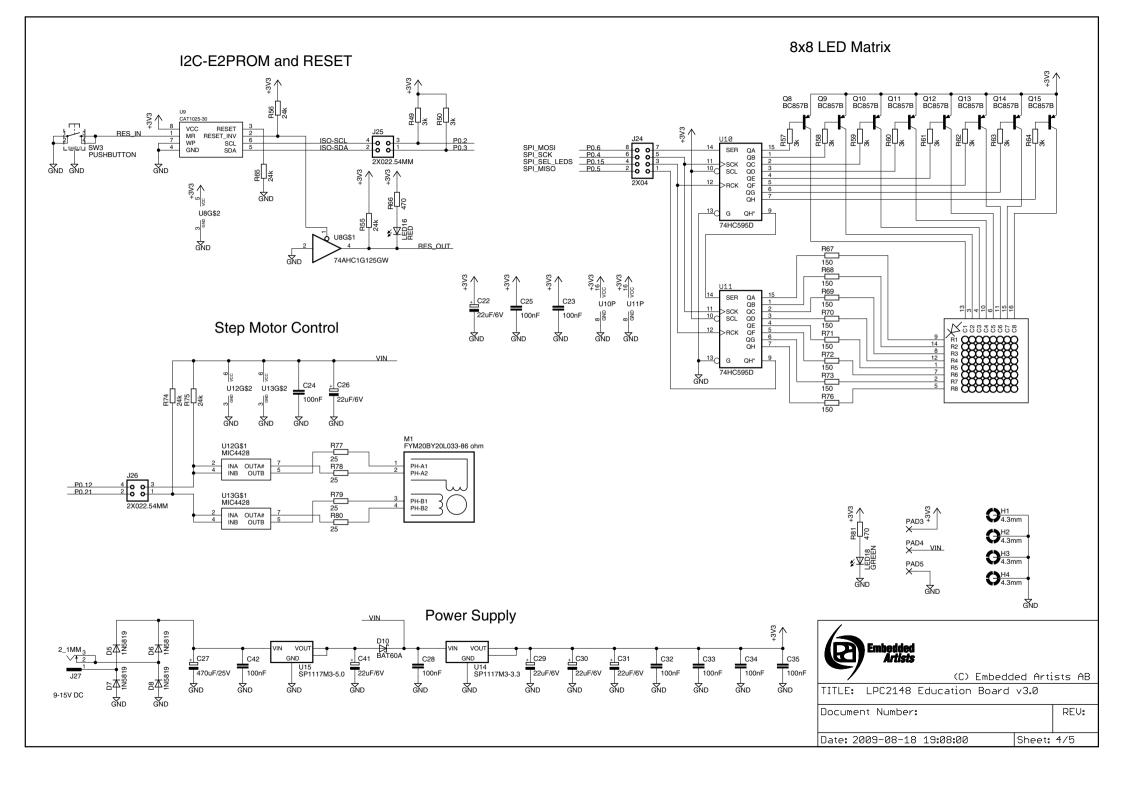
Joystick Switch



LM75 I2C Temperature Sensor

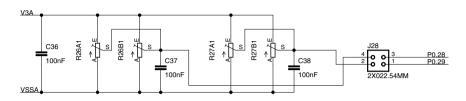




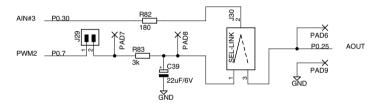


2x16 Character LCD Interface

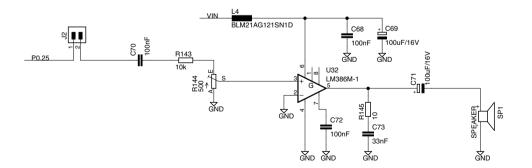
2 Analog Inputs

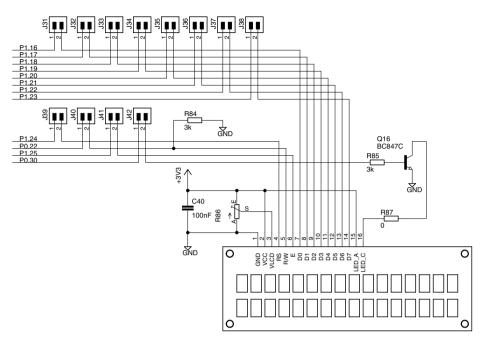


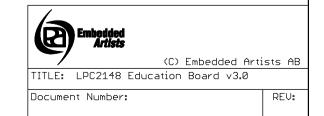
Analog Output (PWM LP filtering)



Speaker amplifier







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