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LPCXpresso connector and Reset

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Optional LPC1xxx and JTAG connectors

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USB, CAN, ETH, RS422/485 interfaces

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Shared SPI/I2C peripherals

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USB-to-UART bridge, RF-module, power supply

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 B

Added J60/J61/R216/R217 (page 5) for USB Host i/f. Added J62 (page 6) to support LPC17xx bootload. Added J58 (page 10) to support spi i/f to OLED or mbed.

### Rev A

First rev



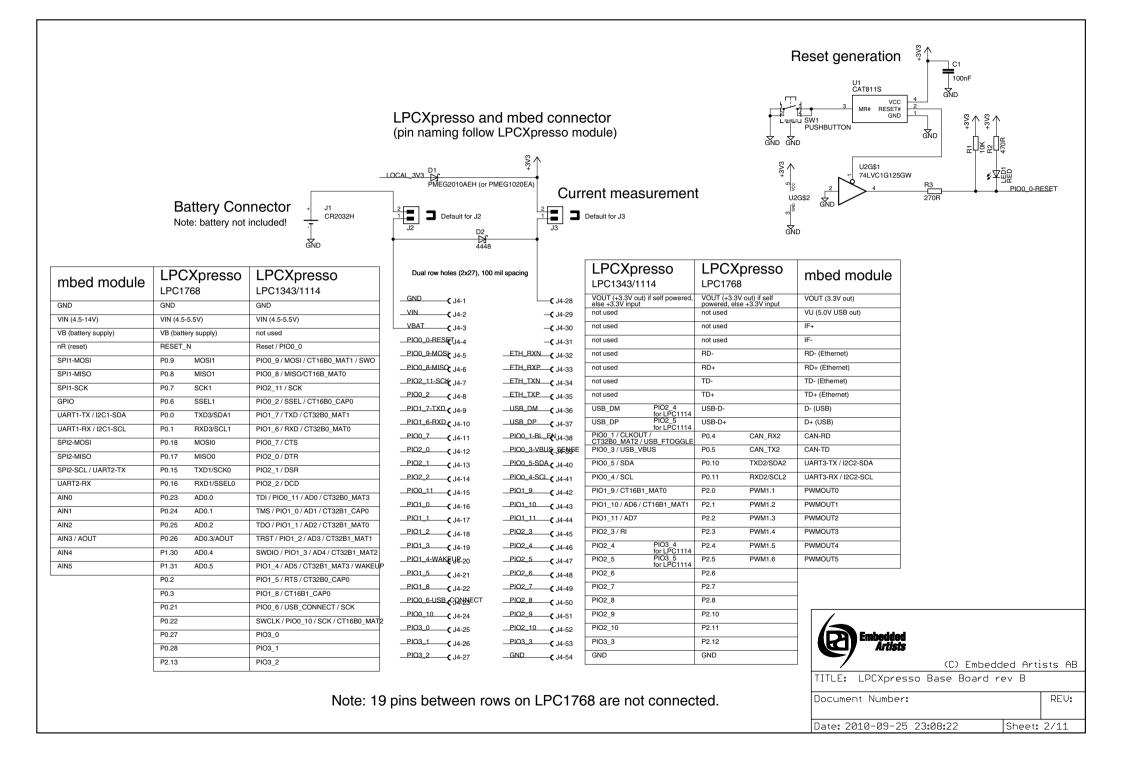
(C) Embedded Artists AB

TITLE: LPCXpresso Base Board rev B

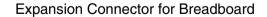
Document Number:

REV:

Date: 2010-09-25 23:08:22 Sheet: 1/11



## **Expansion Connector** PIO0. 0-RESET R4 PIO0. 2 R6 270R PIO0. 4-SCL R8 270R PIO0. 6-USB CONNECT R10 270R PIO0. 6-USB CONNECT R10 270R PIO0. 10 R16 270R PIO1. 0 R16 270R PIO1. 10 R16 270R PIO1. 2 R18 270R PIO1. 2 R18 270R PIO1. 2 R18 270R PIO1. 4-WAKEUP R20 270R PIO1. 8 R24 270R PIO1. 8 R24 270R PIO1. 10 R25 270R PIO2. 0 R28 270R PIO2. 1 R38 270R PIO2. 1 R38 270R PIO2. 4 R32 270R PIO2. 4 R32 270R PIO2. 4 R32 270R PIO2. 6 R34 270R PIO2. 7 R38 270R PIO2. 8 R36 270R PIO2. 1 R38 270R PIO3. 0 R38 270R R5 270R R7 270R R9 270R R11 270R R13 270R R15 270R R17 270R R17 270R R19 270R R21 270R R21 270R R22 270R R23 270R R25 270R R33 270R R33 270R R33 270R R34 270R R35 270R R35 270R R36 270R R37 270R R37 270R R39 270R R39 270R PIO0\_1-BL\_EN\_ PIO0\_3-VBUS\_SENSE PIO0\_5-SDA PIO0\_7 PIO0\_7 PIO0\_9-MOSI PIO0\_9-MO. PIO0\_11 PIO1\_1 PIO1\_3 15 16 16 17 18 19 20 21 22 23 24 24 25 26 27 28 30 31 32 29 30 31 32 35 36 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 PIO1\_2 PIO1\_4-WAKEUP PIO1\_6-RXD PIO1\_8 PIO1\_10 PIO2\_0 PIO2\_2 PIO2\_4 PIO1\_5 PIO1\_3 PIO1\_3 PIO2\_1 PIO2\_3 PIO2\_5 PIO2\_7 PIO2\_9 PIO2\_11-SCK PIO3\_1 PIO3\_3 \_VIN VBAT GND J6 GND





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TITLE: LPCXpresso Base Board rev B

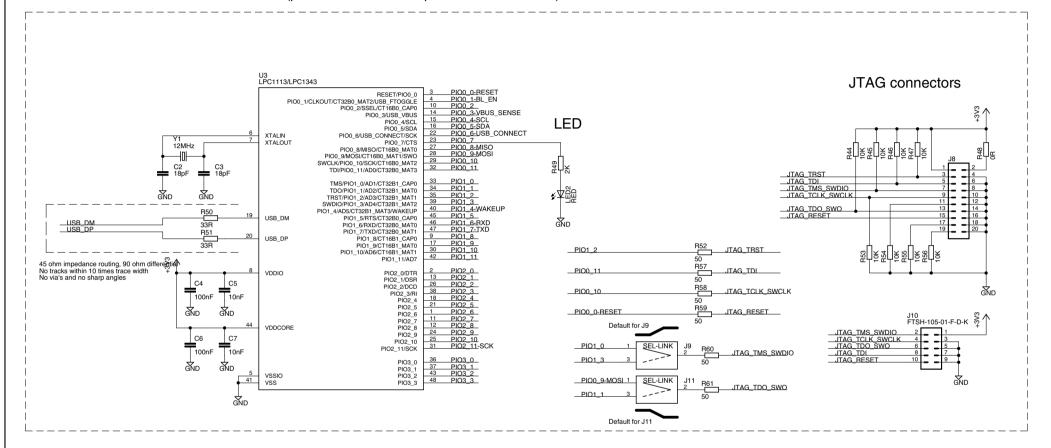
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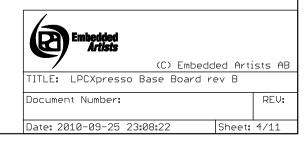
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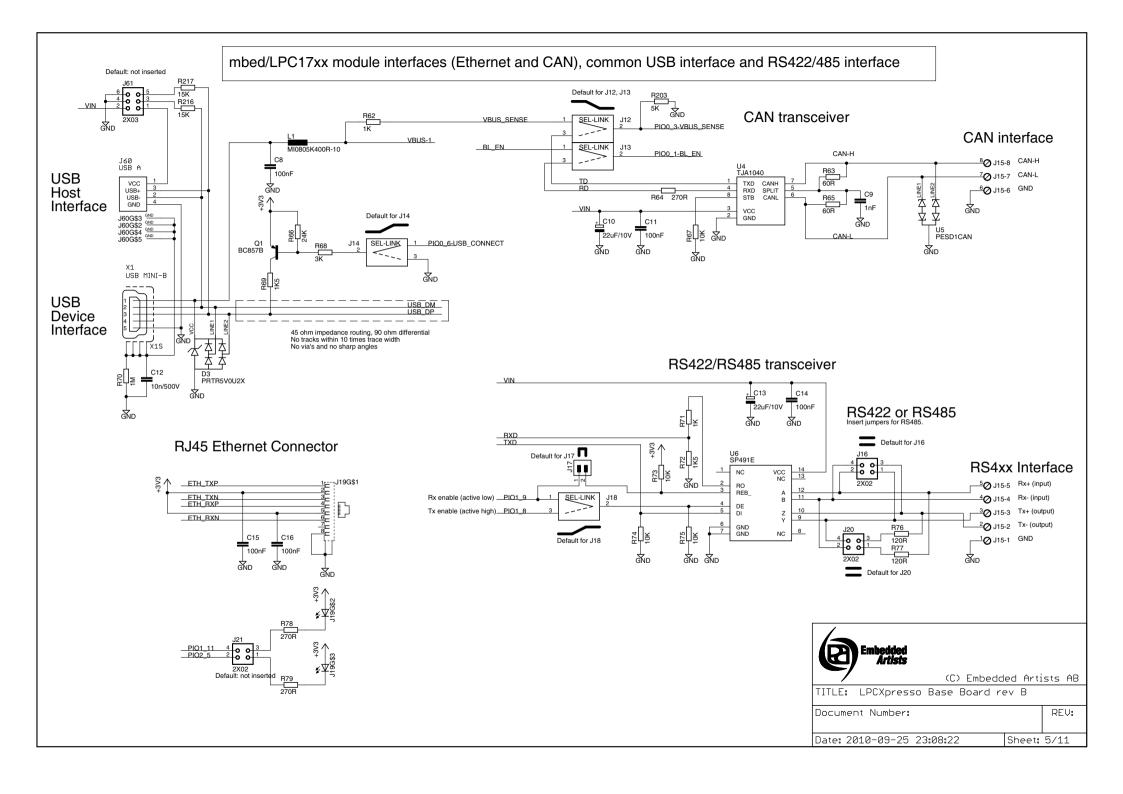
Date: 2010-09-25 23:08:22

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# Optional LPC1113/LPC1343 for standalone boards (placed inbetween LPCXpresso/mbed connector)

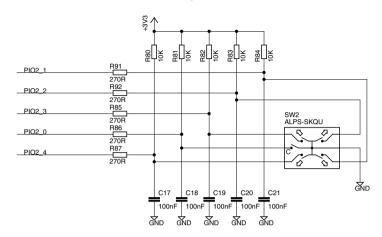


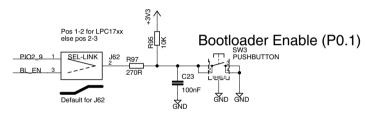


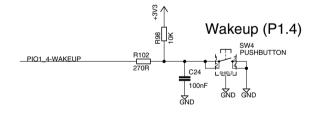


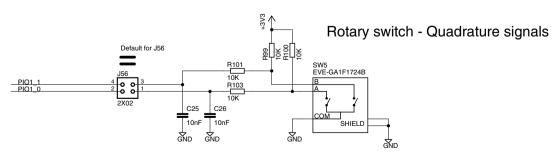


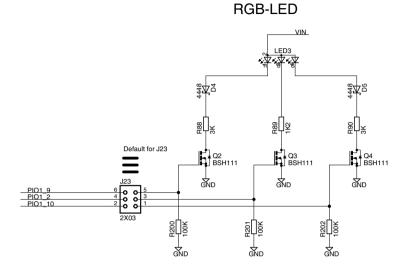
## Joystick Switch



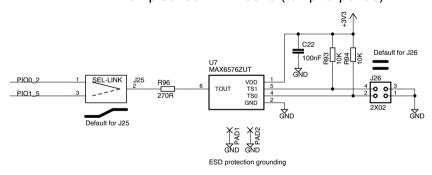


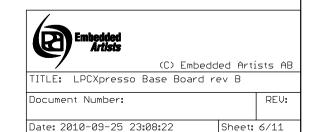






Temp sensor: MAX6576 (temp-to-period)



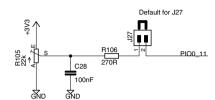


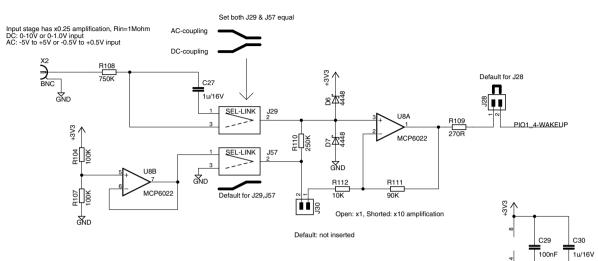


## BNC input (oscilloscope probe)

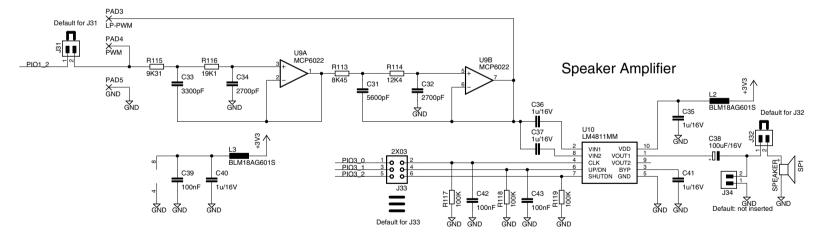
### Analog Input

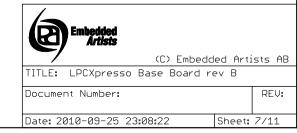
Pads for oscilloscope





### PWM LP filter



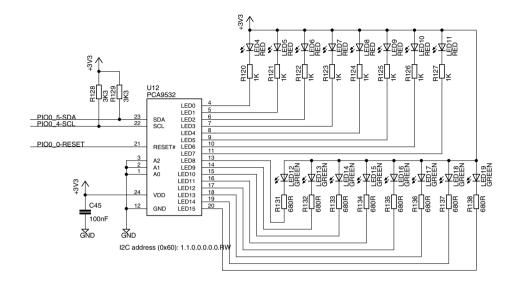


SND SND

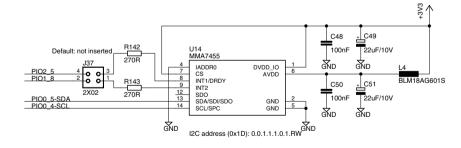
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## I2C peripherals

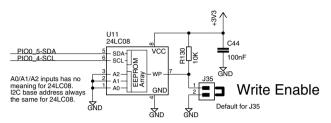
## PCA9532 I2C 16-bit Port Expander



### MMA7455 Accelerometer with I2C interface



### 8kbit I2C-E2PROM



I2C address (0x50-0x53): 1.0.1.0.0.B1.B0.RW B1 & B0 value depends on address of byte to access.

## Light Sensor - ISL29003

