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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 B1

Changed to generic pin naming since many different LPCXpresso target boards exist.

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



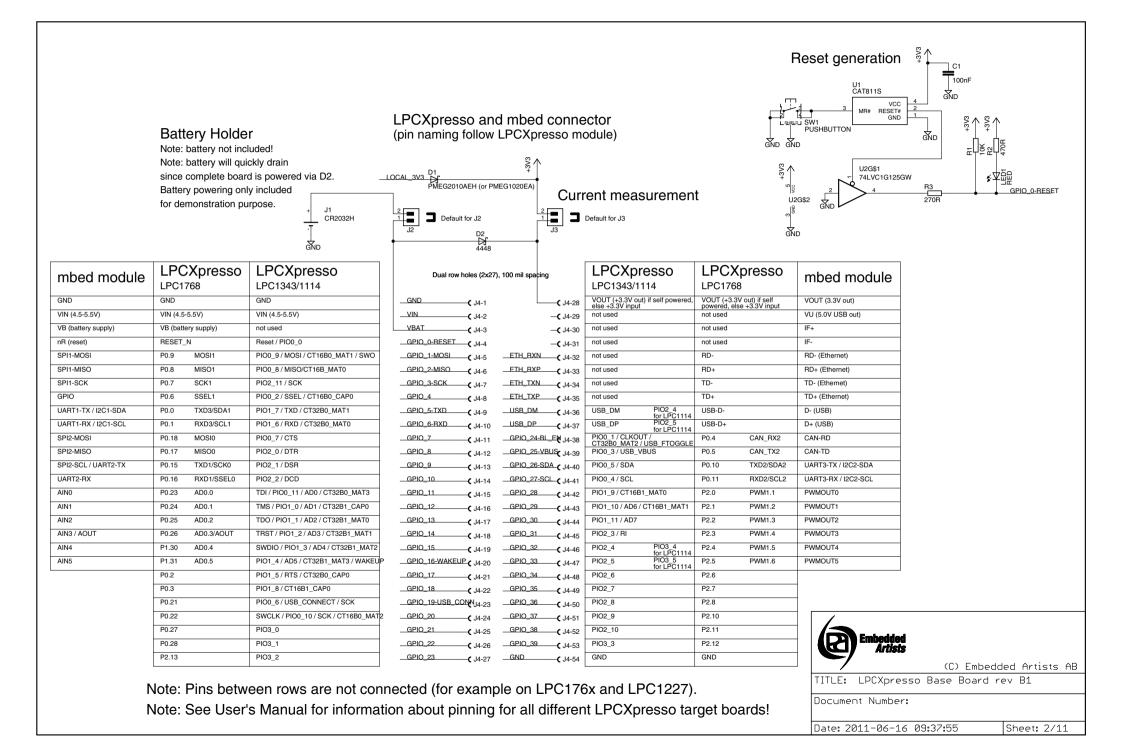
(C) Embedded Artists AB

TITLE: LPCXpresso Base Board rev B1

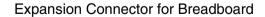
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Expansion Connector R4 270R R6 270R R8 270R R10 270R R112 270R R114 270R R16 270R R18 270R R20 270R R20 270R R24 270R R25 270R R26 270R R27 270R R27 270R R28 270R R28 270R R29 270R R39 270R R5 270R R7 270R R9 270R R11 270R R13 270R R15 270R R17 270R 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 GPIO_0-RESET GPIO_4 GPIO_27-SCL GPIO_24-BL_EN GPIO_25-VBUS GPIO_26-SDA GPIO_19-USB_CONN GPIO_2-MISO GPIO_/ GPIO_1-MOSI GPIO_20 GPIO_12 GPIO_14 GPIO_11 GPIO_13 GPIO_15 GPIO_16-WAKEUP GPIO_6-RXD GPIO_18 GPIO_17 GPIO 5-TXD GPIO_18 GPIO_8 GPIO_10 GPIO_32 GPIO 30 GPIO_30 GPIO_9 GPIO_31 GPIO_33 GPIO_34 GPIO_35 GPIO_36 GPIO_38 GPIO_37 GPIO_3-SCK __GPIO_21 __GPIO_23 GPIO_22 GPIO_39 _VIN VBAT GND J6 GND





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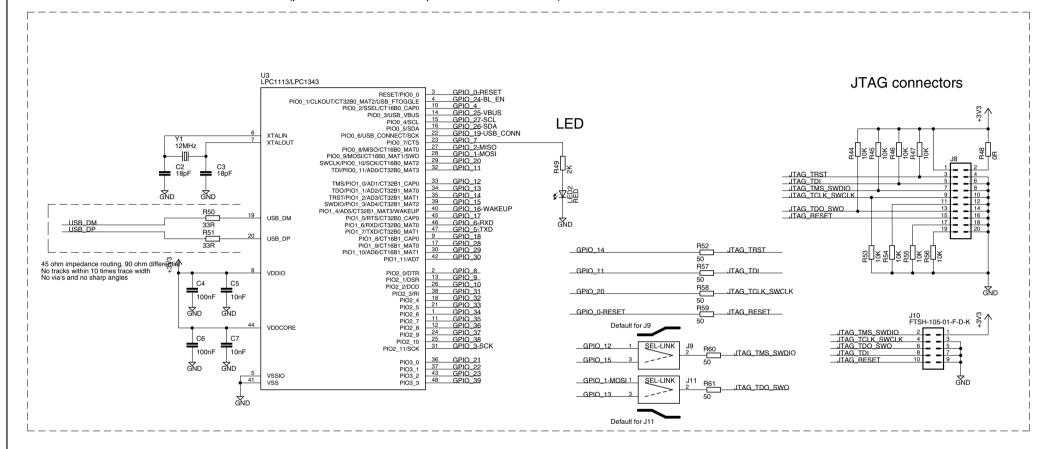
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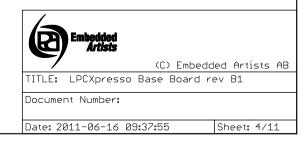
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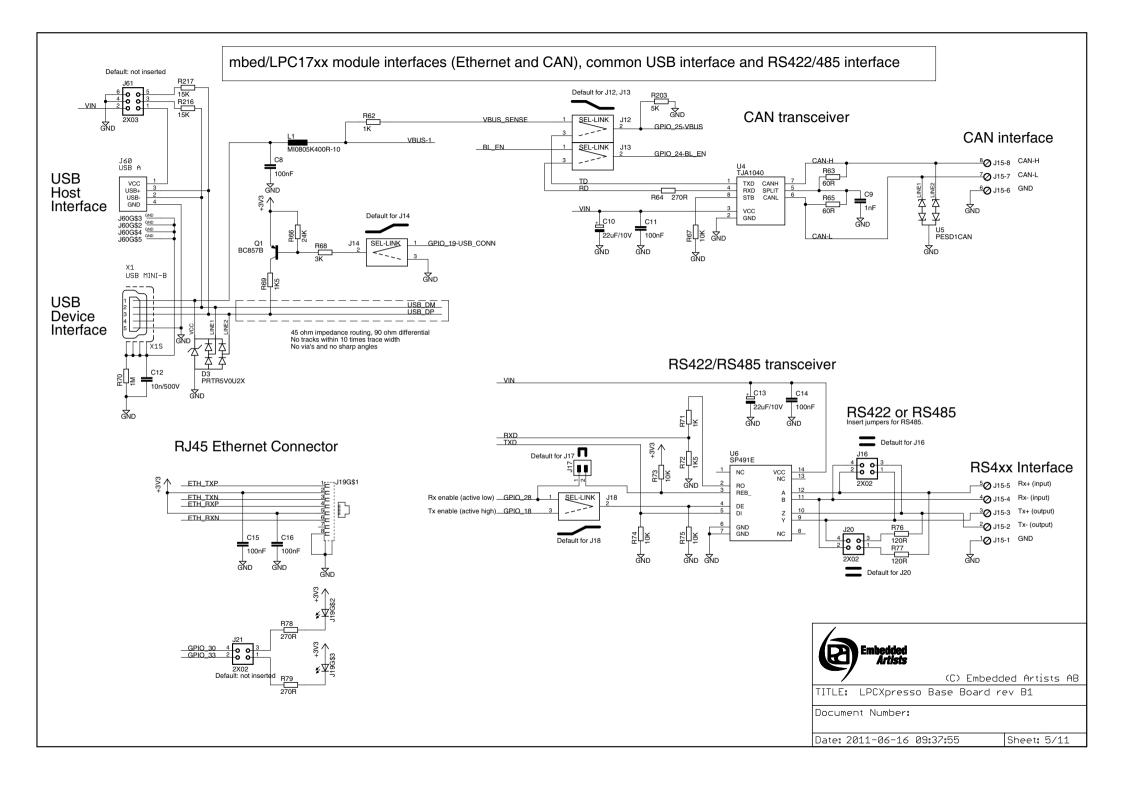
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Optional LPC1114/LPC1343 for standalone boards (placed inbetween LPCXpresso/mbed connector)

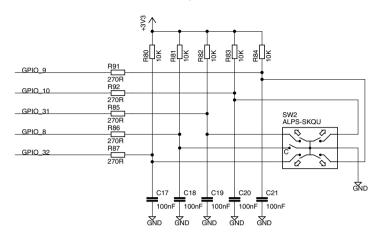


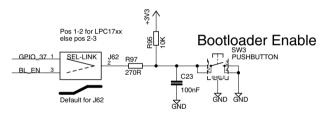


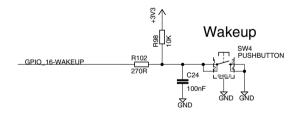


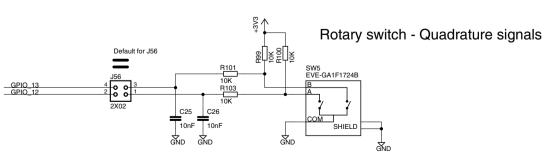
Direct Digital IO peripherals

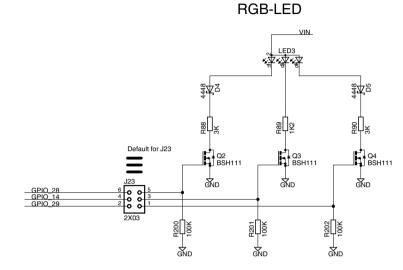
Joystick Switch



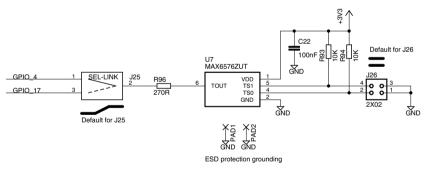


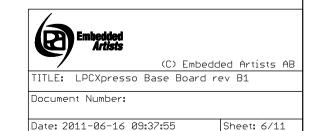


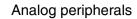




Temp sensor: MAX6576 (temp-to-period)



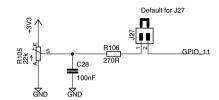


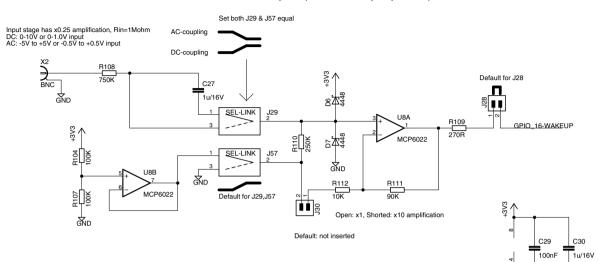


BNC input (oscilloscope probe)

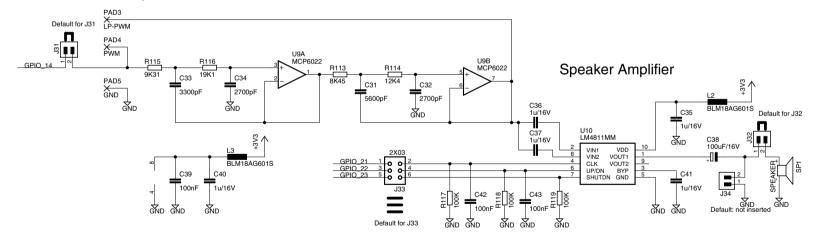
Analog Input

Pads for oscilloscope





PWM LP filter





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SND SND

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TITLE: LPCXpresso Base Board rev B1

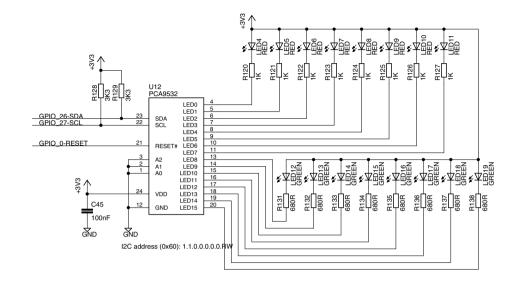
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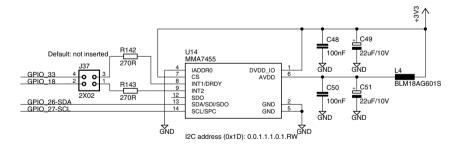
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I2C peripherals

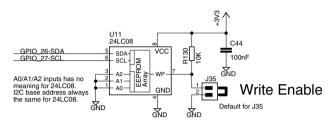
PCA9532 I2C 16-bit Port Expander



MMA7455 Accelerometer with I2C interface

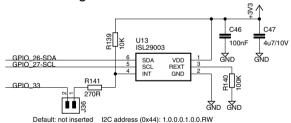


8kbit I2C-E2PROM



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





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SPI peripherals

