Page 2

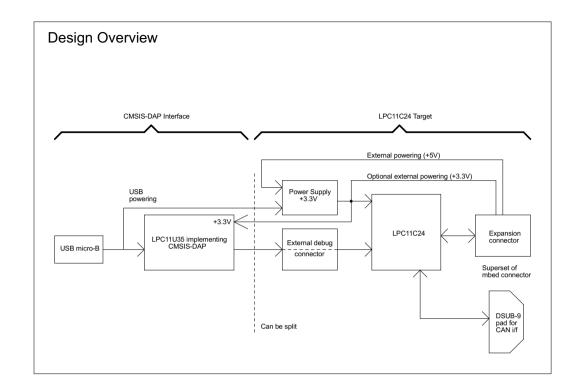
Target MCU: LPC11C24

Page 3

LPCXpresso expansion connector

Page 4

CMSIS-DAP interface



NXP board number: OM130xx

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.

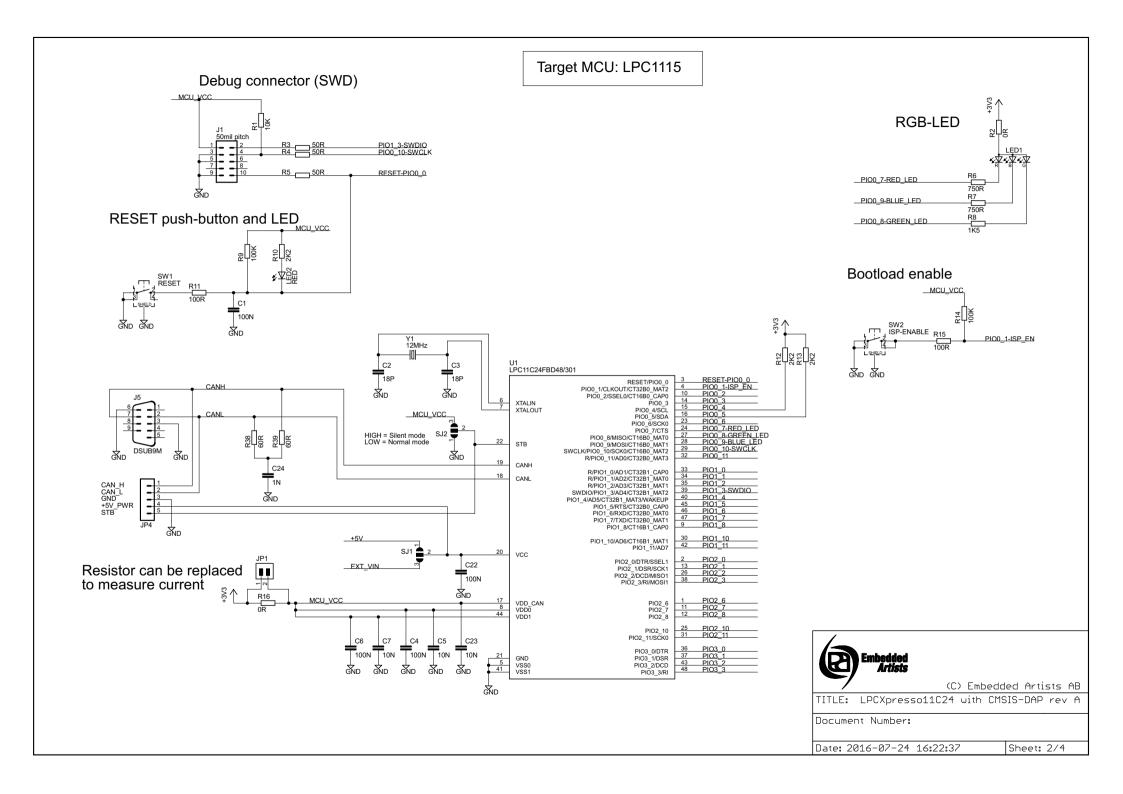


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Expansion Connector (superset of mbed pinning)

| mbed | LPCXpresso | |
|---------------------|------------------|--|
| GND | GND | |
| VIN (4.5-14V) | VIN (4.5-5.5V) | |
| VB (battery supply) | not used | |
| nR (reset) | PIO0_0 RESET_N | |
| SPI1-MOSI | PIO0_9 MOSI | |
| SPI1-MISO | PIOO_8 MISO | |
| SPI1-SCK | PIO2_11 SCK | |
| GPIO | PIO0_2 SSEL | |
| UART1-TX / I2C1-SDA | PIO1_7 TXD | |
| UART1-RX / I2C1-SCL | PIO1_6 RXD | |
| SPI2-MOSI | PIO0_7 | |
| SPI2-MISO | PIO2_0 | |
| SPI2-SCK / UART2-TX | PIO2_1 | |
| UART2-RX | PIO2_2 | |
| AIN0 | PIO0_11 AD0 | |
| AIN1 | PIO1_0 AD1 | |
| AIN2 | PIO1_1 AD2 | |
| AIN3 / AOUT | PIO1_2 AD3 | |
| AIN4 | PIO1_3 AD4/SWDIO | |
| AIN5 | PIO1_4 AD5 | |
| | PIO1_5 | |
| | PIO1_8 | |
| | PIO0_6 | |
| | PIO0_10 SWCLK | |
| | PIO3_0 | |
| | PIO3_1 | |
| | PIO3_2 | |
| | PIO0_10 SWCLK | |
| | _ | |

| | Dual row holes (2x27), 100 mil s | pacing | | 1343 |
|------------------|----------------------------------|---------------------------------|---------------------|---------------|
| | (J2-1 | | J2-28) | + |
| _EXT_VIN GND | G J2-2 | | J2-29) — | |
| | ─¢ J2-3 | | J2-30 > — | |
| _RESET-PIO0_0 | C J2-4 | | J2-31) — | |
| PIO0_9-BLUE_LED | (J2-5 | | J2-32) — | |
| PIO0_8-GREEN_LED | C J2-6 | | J2-33) — | |
| PIO2_11 | C J2-7 | | J2-34) — | |
| _PIO0_2 | C J2-8 | | J2-35) — | |
| PIO1_7 | (J2-9 | | J2-36) — | |
| PIO1_6 | (J2-10 | | J2-37) — | |
| PIO0_7-RED_LED | C J2-11 | | J2-38) ———— | PIO0_1-ISP_EN |
| PIO2_0 | (J2-12 | | J2-39) ———— | PIO0_3 |
| PIO2_1 | C J2-13 | | J2-40) ———— | PIO0_5 |
| PIO2_2 | C J2-14 | | J2-41) ———— | PIO0_4 |
| PIO0_11 | Ç J2-15 | | J2-42) | PIO3_3 |
| PIO1_0 | C J2-16 | | J2-43) ———— | PIO1_10_ |
| PIO1_1 | C J2-17 | | J2-44) | PIO1_11 |
| PIO1_2 | C J2-18 | | J2-45) ———— | PIO2_3 |
| PIO1_3-SWDIO | C J2-19 | | J2-46) | PIO2_6 |
| PIO1_4 | C J2-20 | ≋ ↑ | J2-47) — | |
| PIO1_5 | Ç J2-21 | ÷ | J2-48) — | |
| PIO1_8 | (J2-22 | 2 2 2 1 | J2-49 > | PIO2_7 |
| PIO0_6 | C J2-23 | GND 60000 | J2-50) | PIO2_8 |
| PIO0_10-SWCLK | C J2-24 | 000000 JP6 000000 6X4 MATRIX | J2-51 > — | |
| PIO3_0 | C J2-25 | 2/8/ | J2-52) ———— | PIO2_10 |
| PIO3_1 | C J2-26 | | J2-53) — | |
| PIO3_2 | c J2-27 | J GND | J2-54) | |
| | | GND | | ↓ |

| LPCXpresso | mbed |
|---|---------------------|
| VOUT (+3.3V out) if self powered, else +3.3V input | VOUT (3.3V out) |
| not used | VU (5.0V USB out) |
| not used | IF+ |
| not used | IF- |
| not used | RD- (Ethernet) |
| not used | RD+ (Ethernet) |
| not used | TD- (Ethernet) |
| not used | TD+ (Ethernet) |
| PIO2_4 | D- (USB) |
| PIO2_5 | D+ (USB) |
| PI00_1 | CAN-RD |
| PIO0_3 | CAN-TD |
| PIO0_5 I2C-SDA | UART3-TX / I2C2-SDA |
| PIO0_4 I2C-SCL | UART3-RX / I2C2-SCL |
| PIO3_3 | PWMOUT0 |
| PIO1_10 | PWMOUT1 |
| PIO1_11 | PWMOUT2 |
| PIO2_3 | PWMOUT3 |
| PIO2_6 | PWMOUT4 |
| | PWMOUT5 |
| | |
| PIO2_7 | |
| PIO2_8 | |
| | |
| PIO2 10 | + |



GND

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CMSIS-DAP Debug Interface

