## Page 2

LPC3154 Powering and Unused parts

### Page 3

LPC3154 Digital I/O

#### Page 4

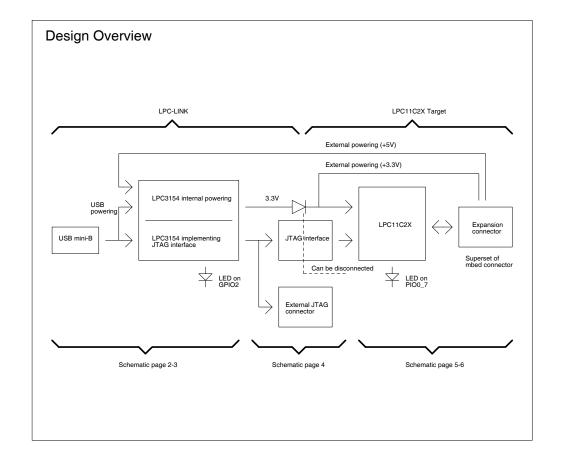
JTAG Interface

#### Page 5

LPC17XX with Expansion connector

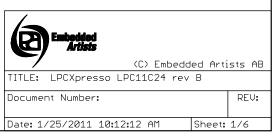
#### Page 6

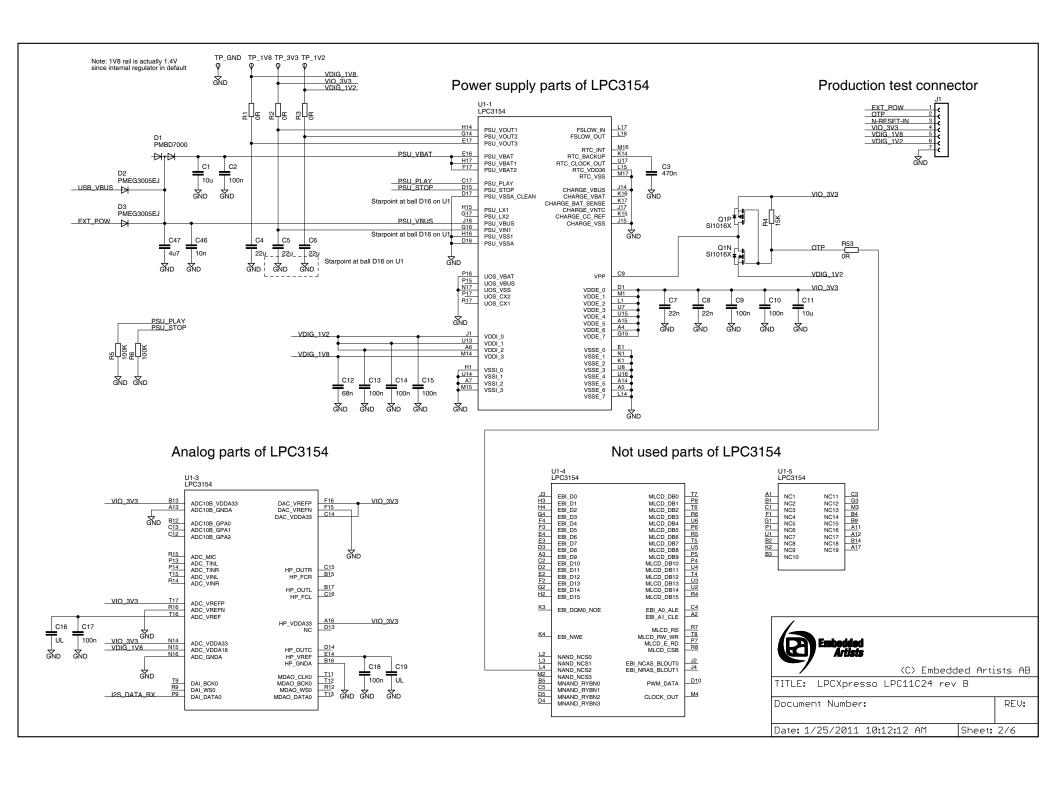
LPC17XX

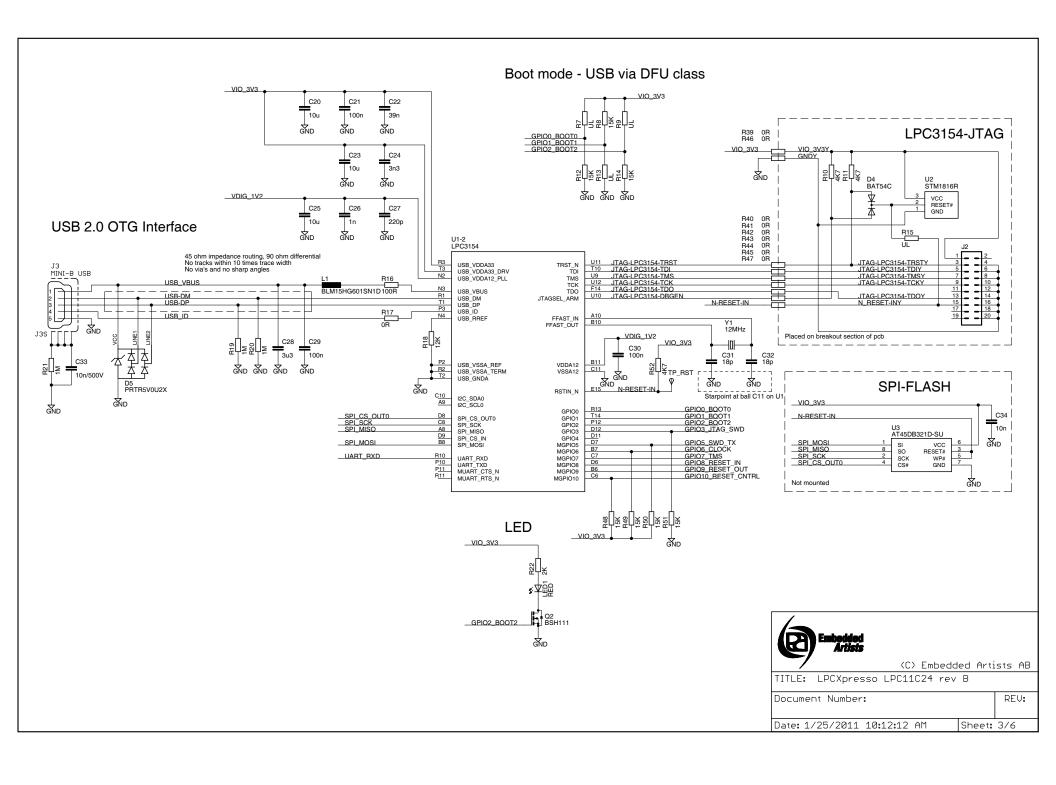


UL = UnLoaded = normally not mounted component.

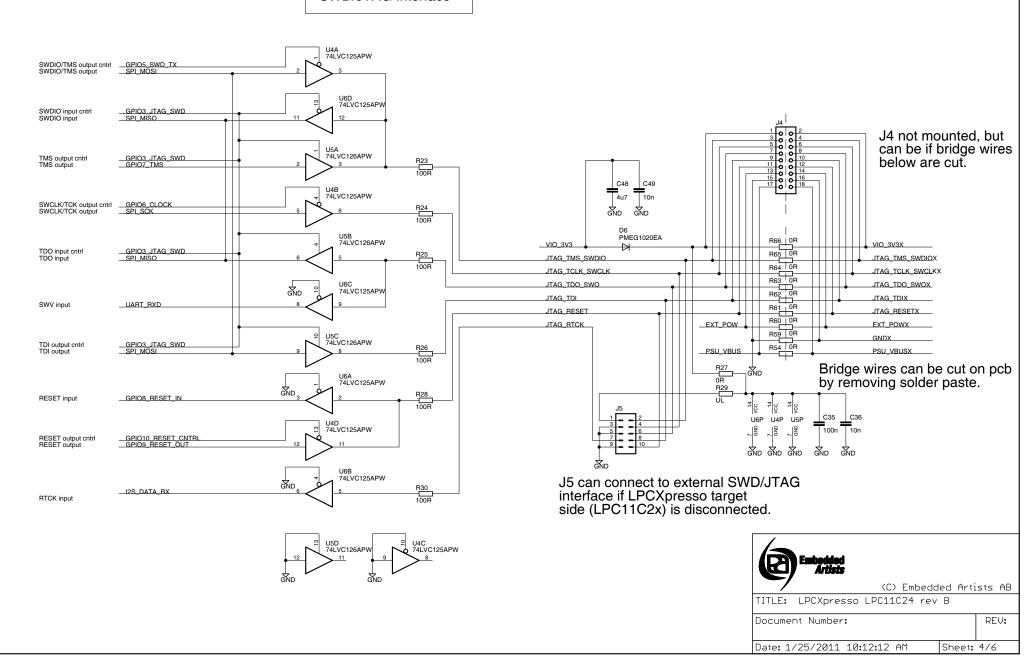
Default jumper settings are indicated in the schematic. However, always check jumper positions on actual boards since there is no guarantee that all jumpers are in default place.



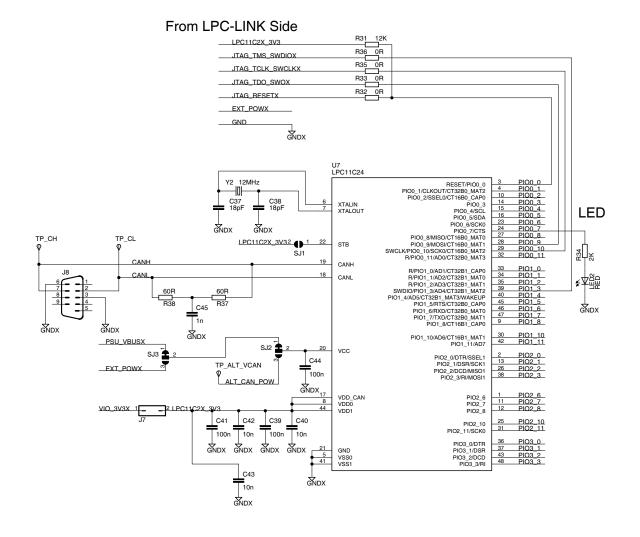


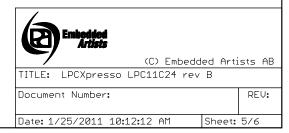


#### SWD/JTAG Interface



#### LPC11C24 Target Side







# Expansion Connector (superset of mbed pinning)

mbed	LPCXpresso		Dual row	holes (2x27), 100	mil spacing						
GND	GND	GNDX	<b>(</b> J6-1							J6-28 <b>)</b> ——	VI
VIN (4.5-14V)	VIN (4.5-5.5V)	EXT_POWX	<b>(</b> J6-2							J6-29 <b>)</b> —	
VB (battery supply)	not used		<b>─¢</b> J6-3							J6-30 <b>)</b> —	
nR (reset)	PIO0_0 RESET	PIO0_0	<b>(</b> J6-4							J6-31 <b>)</b> —	
SPI1-MOSI	PIO0_9 MOSI0/SWO	PIO0_9	<b>(</b> J6-5							J6-32 <b>)</b> —	
SPI1-MISO	PIO0_8 MISO0	PIO0_8	<b>(</b> J6-6							J6-33 <b>)</b> —	
SPI1-SCK	PIO2_11 SCK0	PIO2_11	<b>(</b> J6-7							J6-34 <b>)</b> —	
GPIO	PIO0_2 SSEL0	_PIO0_2	<b>──(</b> J6-8							J6-35 <b>)</b> —	
UART1-TX / I2C1-SDA	PIO1_7 TXD	PIO1_7	<b>(</b> J6-9							J6-36 <b>)</b> —	
UART1-RX / I2C1-SCL	PIO1_6 RXD	PIO1_6	<b>(</b> J6-10							J6-37 <b>)</b> —	
SPI2-MOSI	PIO0_7	PIO0_7	<b>(</b> J6-11							J6-38 <b>)</b>	
SPI2-MISO	PIO2_0	PIO2_0	<b>(</b> J6-12							J6-39 <b>)</b> ——	
SPI2-SCL / UART2-TX	PIO2_1	PIO2_1	<b>(</b> J6-13							J6-40 <b>)</b> ——	
UART2-RX	PIO2_2	_PIO2_2	<b>(</b> J6-14							J6-41 <b>)</b>	
AIN0	PIO0_11 AD0	PIO0_11	<b>—(</b> J6-15							J6-42 <b>)</b> ——	
AIN1	PIO1_0 AD1	PIO1_0	<b>(</b> J6-16							J6-43 <b>)</b> ——	F
AIN2	PIO1_1 AD2	PIO1_1	<b>(</b> J6-17	GNDX				VIO 3V3X		J6-44 <b>)</b>	F
AIN3 / AOUT	PIO1_2 AD3	PIO1_2	<b>(</b> J6-18			~	•	_		J6-45 )	
AIN4	PIO1_3 AD4/SWDIO	PIO1_3	<b>(</b> J6-19	— <b>Ø</b> PAD1	□ ØPAD5	— <b>⊗</b> PAD9	- <b>⊘</b> PAD13	□-ØPAD17	□ ØPAD21	J6-46 <b>)</b> ——	
AIN5	PIO1_4 AD5	PIO1_4	<b>(</b> J6-20	-ØPAD2	— <b>⊗</b> PAD6	— <b>⊗</b> PAD10	— <b>⊘</b> PAD14	— <b>⊘</b> PAD18	-ØPAD22	J6-47 <b>)</b> —	
	PIO1_5	PIO1_5	<b>(</b> J6-21	- <b>Ø</b> PAD3	-ØPAD7	— <b>⊗</b> PAD11	-ØPAD15	-ØPAD19	- <b>Ø</b> PAD23	J6-48 <b>)</b> —	
	PIO1_8	PIO1_8	<b>(</b> J6-22	<b>-Ø</b> PAD4	-⊗PAD8	■ PAD12 GNDX	PAD16	-ØPAD20	<b>−Ø</b> PAD24	J6-49 <b>)</b> ——	
	PIO0_6	PIO0_6	<b>(</b> J6-23			GINDA	_			J6-50 <b>)</b> ——	
	PIO0_10 SWCLK	PIO0_10	<b>(</b> J6-24							J6-51 <b>)</b> —	
	PIO3_0	PIO3_0	<b>(</b> J6-25							J6-52 <b>)</b>	F
	PIO3_1	PIO3_1	— <b>(</b> J6-26							J6-53 <b>)</b> —	
	PIO3_2	PIO3_2	— <b>€</b> J6-27							J6-54 <b>)</b>	

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)					
not used	D- (USB)					
not used	D+ (USB)					
PIO0_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					
not used	PWMOUT5					
not used						
PIO2_7	1					
PIO2_8	1					
not used	1					
PIO2_10	1					
not used	1					
GND	1					



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