Page 2

LPC3154 Powering and Unused parts

Page 3

LPC3154 Digital I/O

Page 4

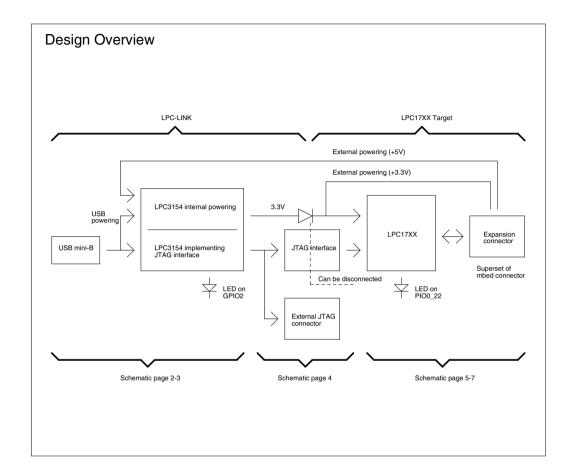
JTAG Interface

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.

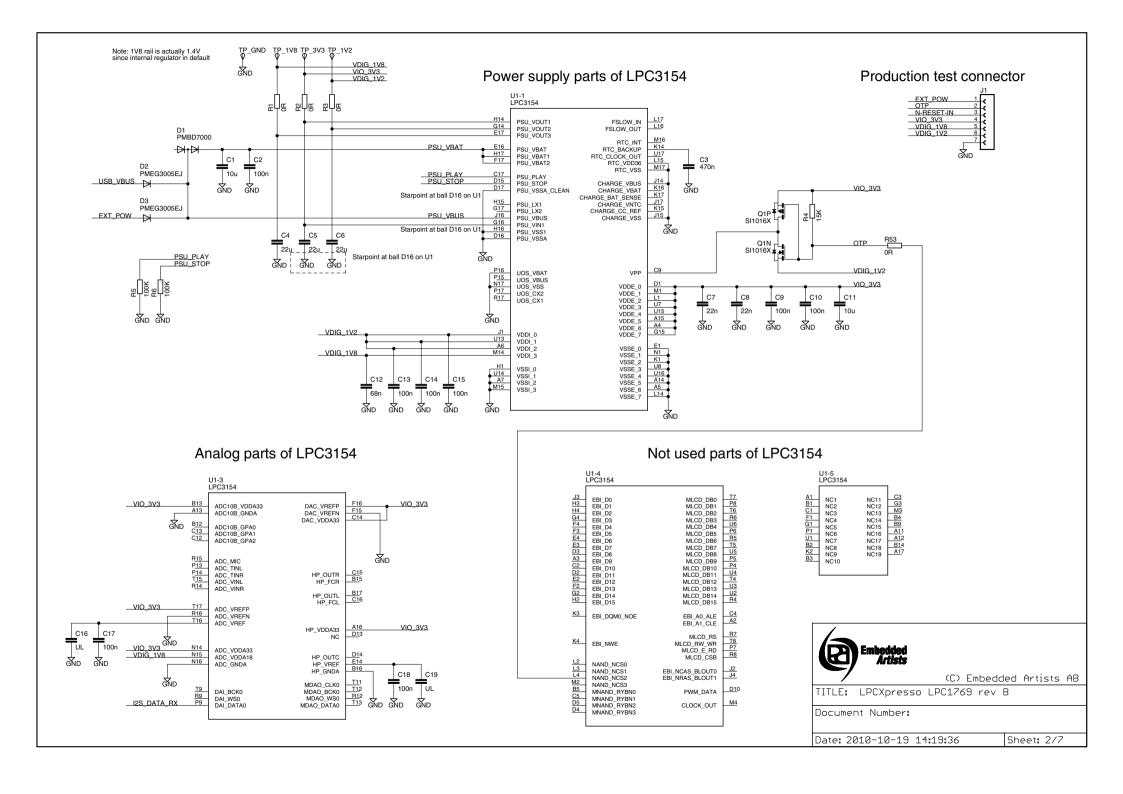


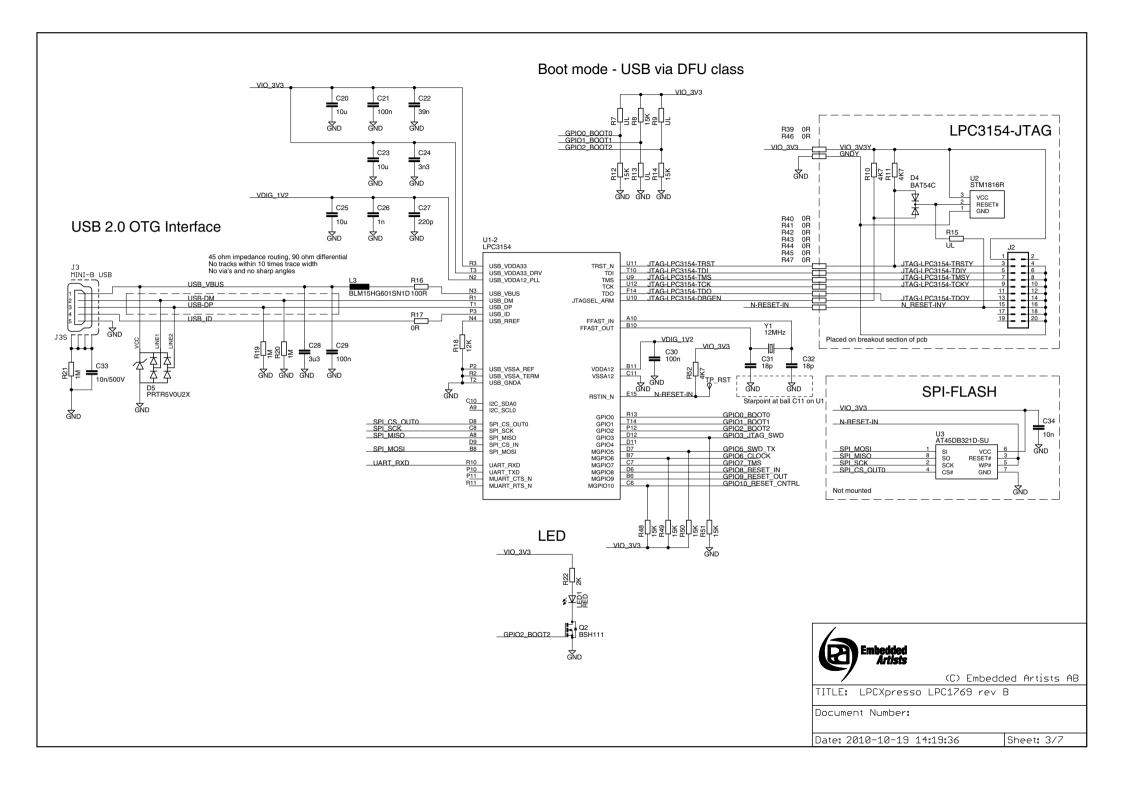
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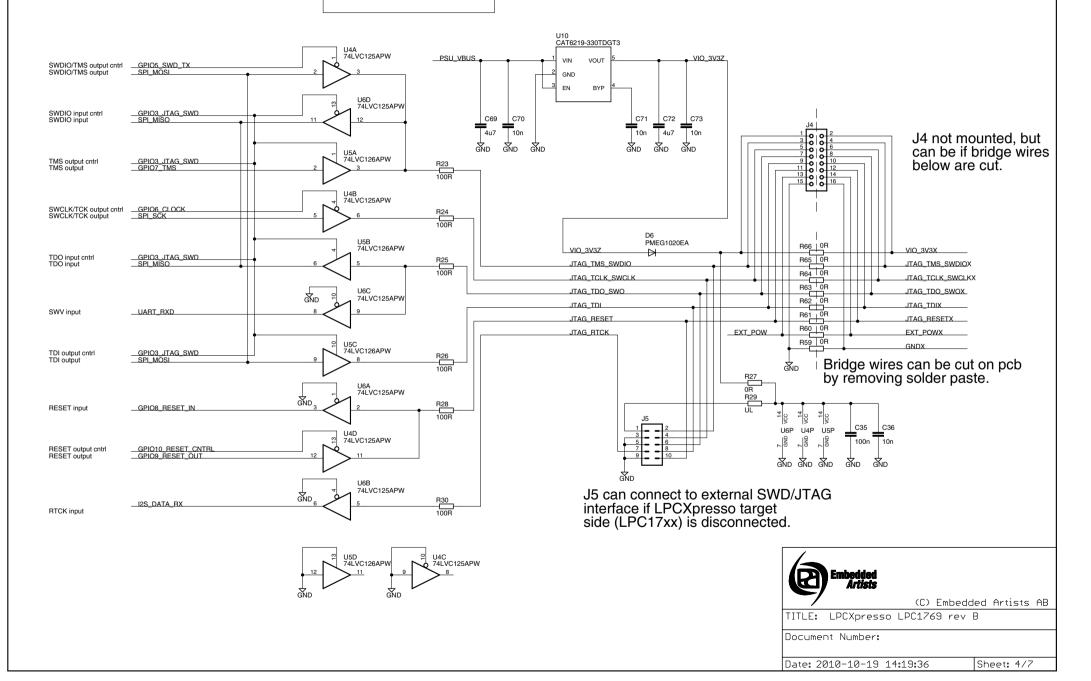
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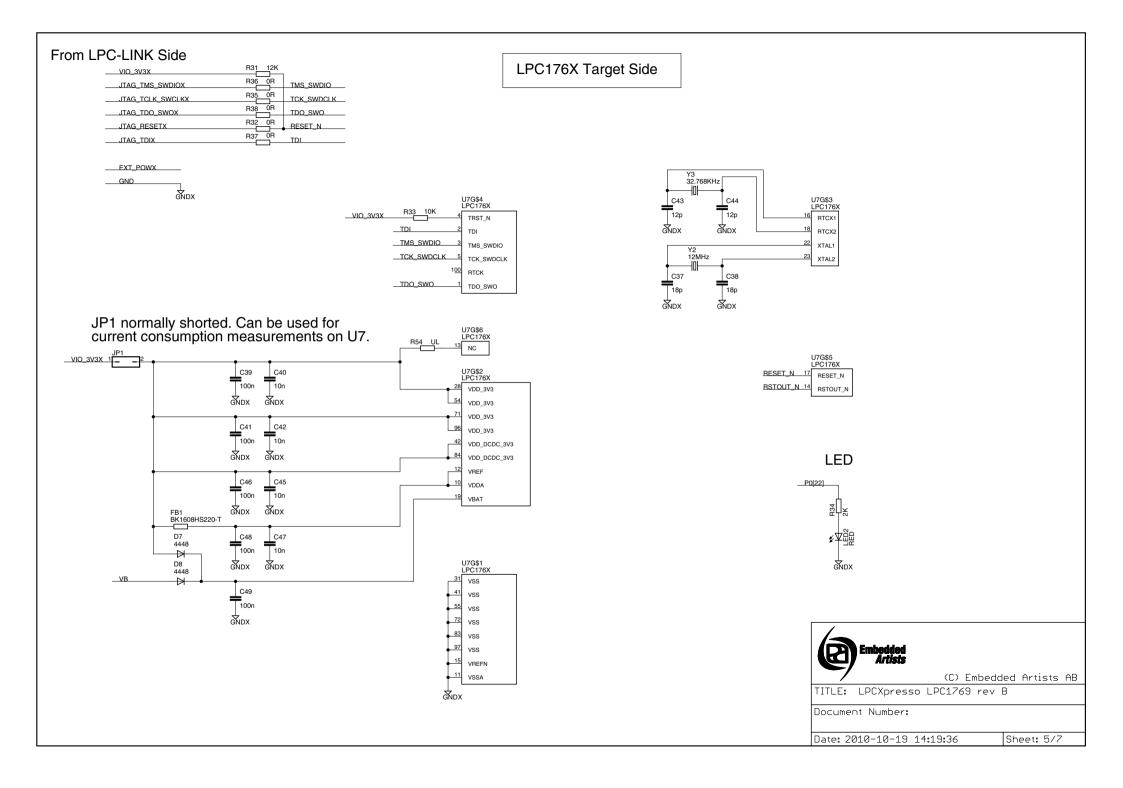
Date: 2010-10-19 14:19:36 Sheet: 1/7

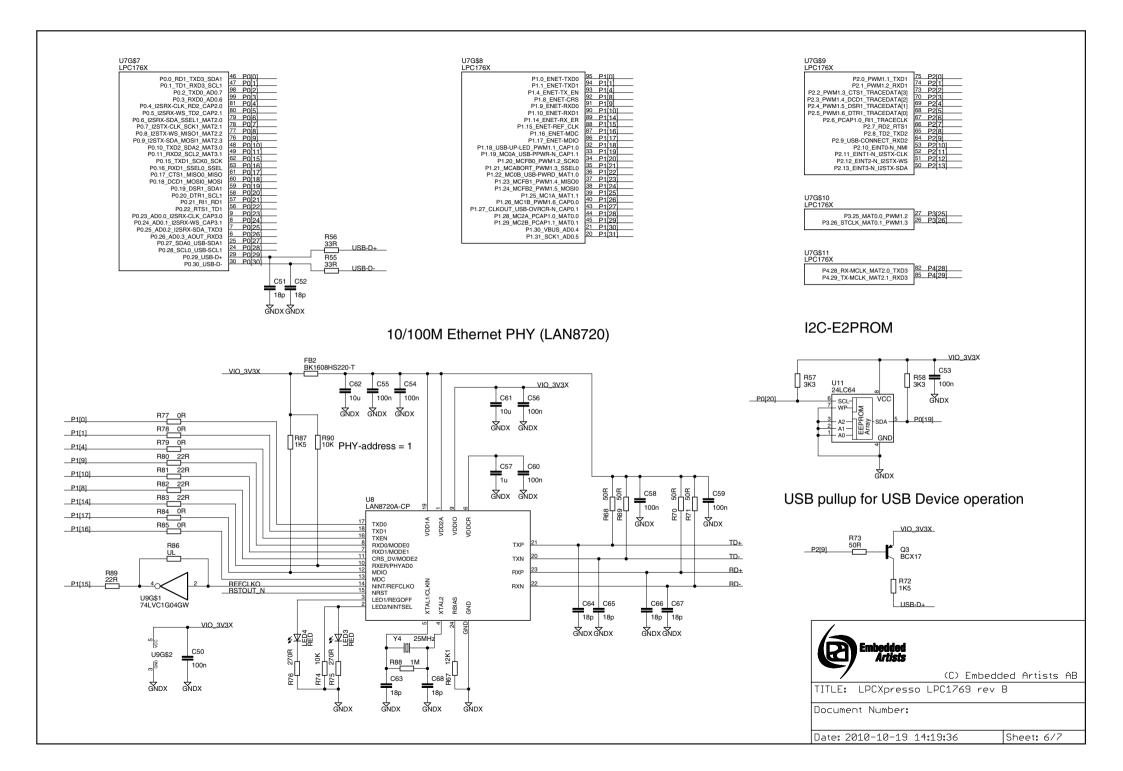




SWD/JTAG Interface









Expansion Connector (superset of mbed pinning)

mbed	LPCXpresso		Dual row holes (2x27), 100 mil spacing
GND	GND	GNDX	4 J6-1
VIN (4.5-14V)	VIN (4.5-5.5V)	EXT_POWX	X J6-2
VB (battery supply)	VB (battery supply)	VB	(J6-3
nR (reset)	RESET_N	RESET_N	(J6-4
SPI1-MOSI	P0.9 MOSI1	_P0[9]	(J6-5
SPI1-MISO	P0.8 MISO1	P0[8]	(J6-6
SPI1-SCK	P0.7 SCK1	P0[7]	(J6-7
GPIO	P0.6 SSEL1	P0[6]	(J6-8
UART1-TX / I2C1-SDA	P0.0 TXD3/SDA1	P0[0]	(J6-9
UART1-RX / I2C1-SCL	P0.1 RXD3/SCL1	P0[1]	t J6-10
SPI2-MOSI	P0.18 MOSI0	P0[18]	(J6-11
SPI2-MISO	P0.17 MISO0	P0[17]	(J6-12
SPI2-SCL / UART2-TX	P0.15 TXD1/SCK0	P0[15]	C J6-13
UART2-RX	P0.16 RXD1/SSEL0	_P0[16]	C J6-14
AIN0	P0.23 AD0.0	P0[23]	C J6-15
AIN1	P0.24 AD0.1	_P0[24]	C J6-16
AIN2	P0.25 AD0.2	P0[25]	(J6-17
AIN3 / AOUT	P0.26 AD0.3/AOUT	P0[26]	C J6-18
AIN4	P1.30 AD0.4	P1[30]	(J6-19
AIN5	P1.31 AD0.5	P1[31]	(J6-20
	P0.2	P0[2]	(J6-21
	P0.3	P0[3]	4 J6-22
	P0.21	P0[21]	(J6-23
	P0.22	P0[22]	₹ J6-24 № PAD19
	P0.27	P0[27]	J6-25 PAD18 PAD15 PAD12 PAD9 PAD6
	P0.28	P0[28]	
	P2.13	P2[13]	J6-27 DPAD16 DPAD13 DPAD10 DPAD7 DPAD4
		1	

P2[9] P0[20] P0[19] P4[29]

P4[28] P3[26] P3[25] P1[29] P1[28] P1[27] P1[26] P1[25] P1[24] P1[23] P1[22] P1[21]

LPCXp	resso	mbed
VOUT (+3.3V o	out) if self +3.3V input	VOUT (3.3V out)
not used		VU (5.0V USB out)
not used		IF+
not used		IF-
RD-		RD- (Ethernet)
RD+		RD+ (Ethernet)
TD-		TD- (Ethernet)
TD+		TD+ (Ethernet)
USB-D-		D- (USB)
USB-D+		D+ (USB)
P0.4	CAN_RX2	CAN-RD
P0.5	CAN_TX2	CAN-TD
P0.10	TXD2/SDA2	UART3-TX / I2C2-SDA
P0.11	RXD2/SCL2	UART3-RX / I2C2-SCL
P2.0	PWM1.1	PWMOUT0
P2.1	PWM1.2	PWMOUT1
P2.2	PWM1.3	PWMOUT2
P2.3	PWM1.4	PWMOUT3
P2.4	PWM1.5	PWMOUT4
P2.5	PWM1.6	PWMOUT5
P2.6		
P2.7		
P2.8		
P2.10		
P2.11		
P2.12		
GND		

VIO_3V3X

RD-

RD+

TD-

TD+

USB-D-

USB-D+

P0[4]

P0[5]

P0[10]

P0[11]

P2[0]

P2[1]

P2[2]

P2[3]

P2[4]

P2[5]

P2[6]

P2[7]

P2[8]

P2[10]

P2[11]

P2[12]

GNDX

J6-28 **)**—
J6-29 **)**—
J6-30 **)**—

J6-32)---

J6-33 >

J6-34 **)**—

J6-35 **)**—

J6-36 **)**—

J6-37 **)**—

J6-38)—

J6-39 **)**—

J6-40 **)**—

J6-41 **)**—

J6-42 **)**—

J6-43 >---

J6-44 **)**—

J6-45 **)**—

J6-46 **)**—

J6-47 **)**—

J6-48 **)**—

J6-49 **>**—

J6-50 **)**—

J6-51 **)**—

-**⊗**PAD3 J6-52 **)**--

-**⊗**PAD2 J6-53 **)**--

-**⊗**PAD1 J6-54 **)**--



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TITLE: LPCXpresso LPC1769 rev B

Document Number:

Date: 2010-10-19 14:19:36 Sheet: 7/7