#### Page 2

Target MCU: LPC1769

#### Page 3

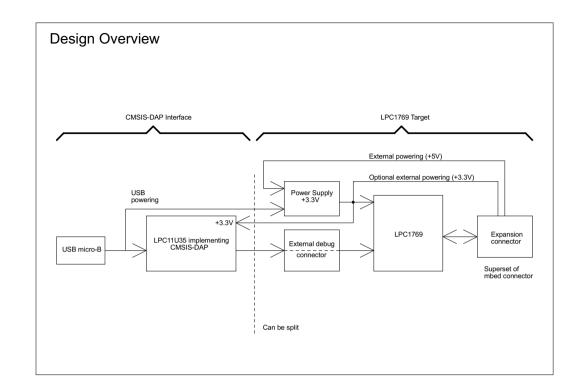
Ethernet PHY Interface

#### Page 4

LPCXpresso expansion connector

# Page 5

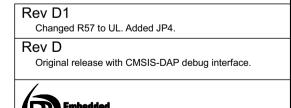
CMSIS-DAP interface



NXP board number: OM13085

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.



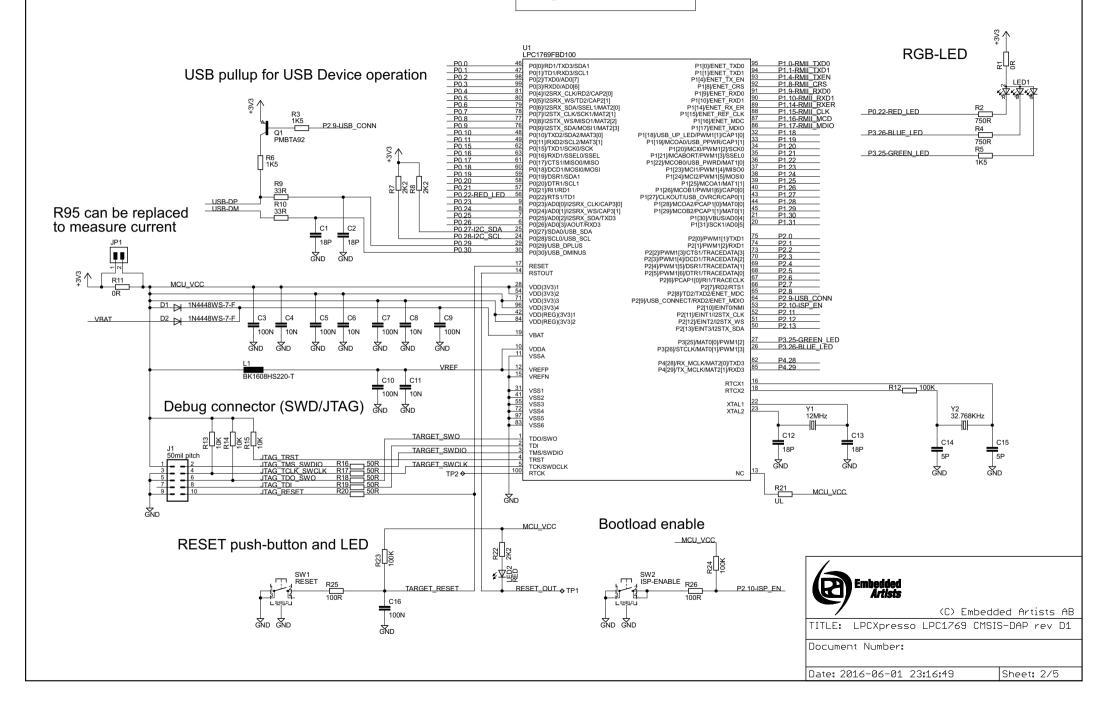
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TITLE: LPCXpresso LPC1769 CMSIS-DAP rev D1

TITLE: EFCAPIESSO EFCT 05 CHOTS BHE FEV B

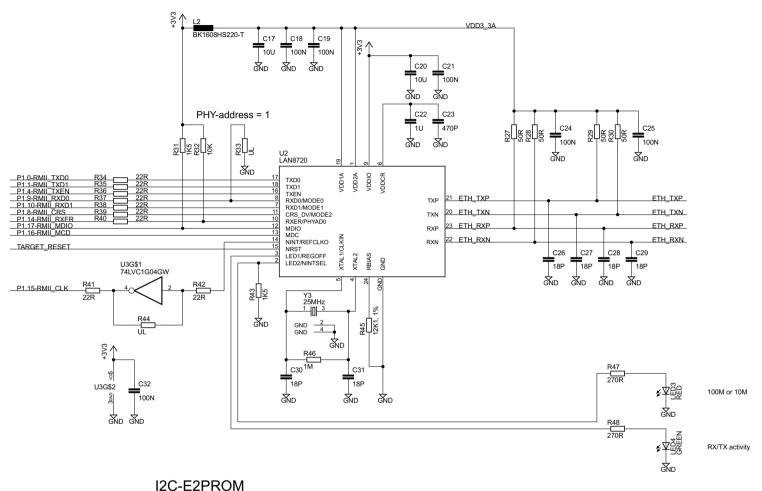
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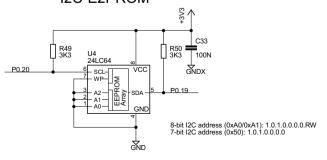
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# Target MCU: LPC1769



## 100/10M Ethernet PHY







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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)	VB (battery supply)	
nR (reset)	RESET_N	
SPI1-MOSI	P0.9	MOSI1
SPI1-MISO	P0.8	MISO1
SPI1-SCK	P0.7	SCK1
GPIO	P0.6	SSEL1
UART1-TX / I2C1-SDA	P0.0	TXD3/SDA1
UART1-RX / I2C1-SCL	P0.1	RXD3/SCL1
SPI2-MOSI	P0.18	MOSI0
SPI2-MISO	P0.17	MISO0
SPI2-SCK / UART2-TX	P0.15	TXD1/SCK0
UART2-RX	P0.16	RXD1/SSEL0
AIN0	P0.23	AD0.0
AIN1	P0.24	AD0.1
AIN2	P0.25	AD0.2
AIN3 / AOUT	P0.26	AD0.3/AOUT
AIN4	P1.30	AD0.4
AIN5	P1.31	AD0.5
	P0.2	
	P0.3	
	P0.21	
	P0.22	
	P0.27	
	P0.28	
	P2.13	

	Dual row holes (2x27), 100 mil spacing		+373
GND		2-28 >	+
_EXT_VIN		2-29 >—	
VBAT		2-30 >—	
TARGET_RE	SET <sub>C J2-4</sub> J2	2-31 <b>)</b> —	
P0.9		2-32	ETH_RXN
P0.8		2-33	ETH_RXP
P0.7		2-34 )	ETH_TXN
P0.6	<b>(</b> J2-8	2-35	ETH_TXP
P0.0	<b>C</b> J2-9	2-36 >	USB-DM
P0.1	<b>(</b> J2-10	2-37	USB-DP
P0.18	<b>C</b> J2-11 J2	2-38	P0.4
P0.17	<b>(</b> J2-12	2-39	P0.5
P0.15		2-40	P0.10
P0.16		2-41 )	P0.11
P0.23		2-42	P2.0
P0.24	<b>C</b> J2-16	2-43	P2.1
P0.25		2-44 )	P2.2
P0.26		2-45	P2.3
P1.30		2-46 )	P2.4
P1.31		2-47	P2.5
P0.2	J2-21 J2-21	2-48	P2.6
P0.3	J2-22 J2	2-49	P2.7
P0.21		2-50	P2.8
P0.22-RED_L		2-51 )	P2.10-ISP_EN
P0.27-I2C_SI		-	P2.11
P0.28-I2C_S0		-	P2.12
_P2.13			GND
P2.9 P0.2 P0.1 P4.2	9 P1.25 P1.22 P1.19		
P4.2	9		

LPCX	presso	mbed
VOUT (+3.3)	out) if self e +3.3V input	VOUT (3.3V out)
not used	e 13.3V input	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

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## CMSIS-DAP Debug Interface

