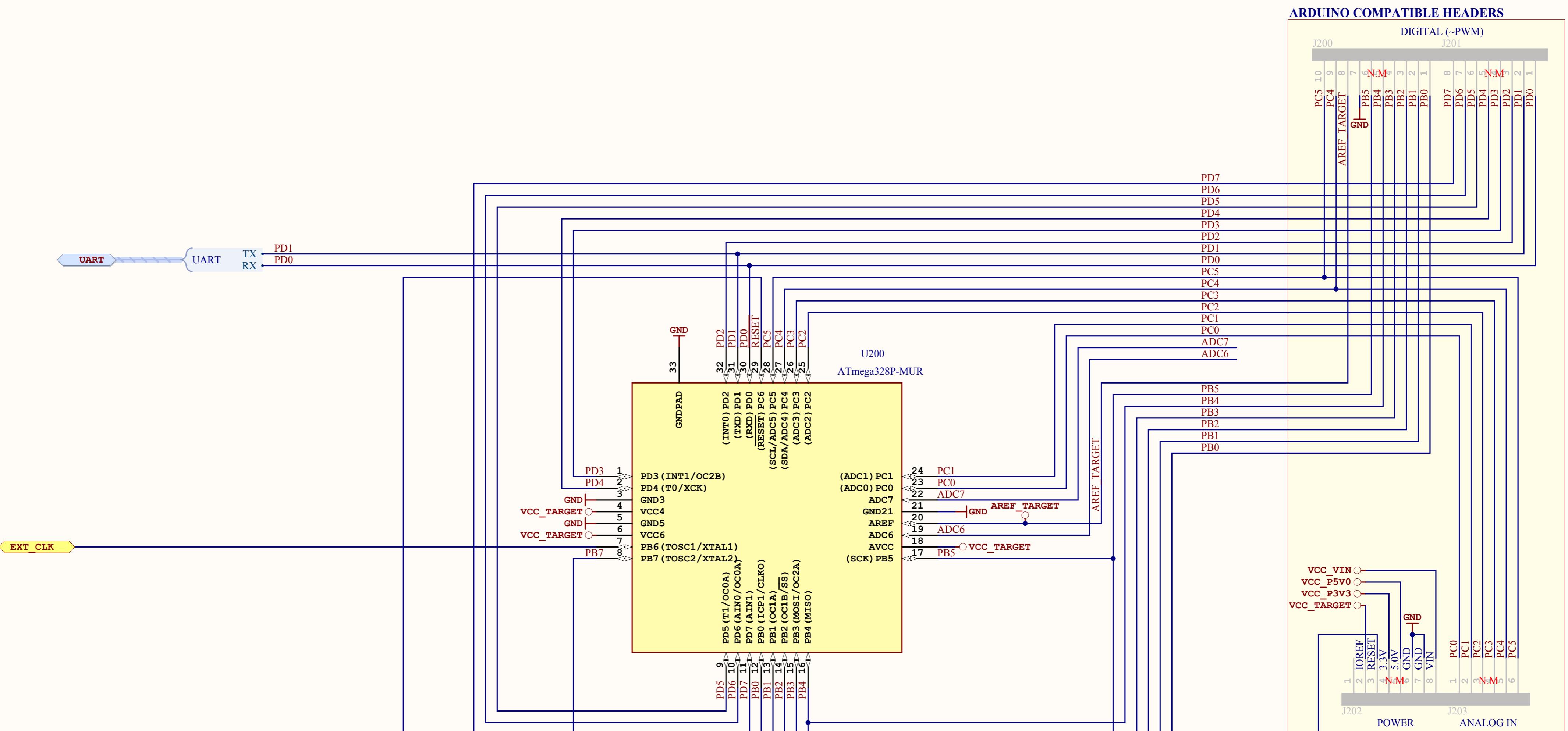
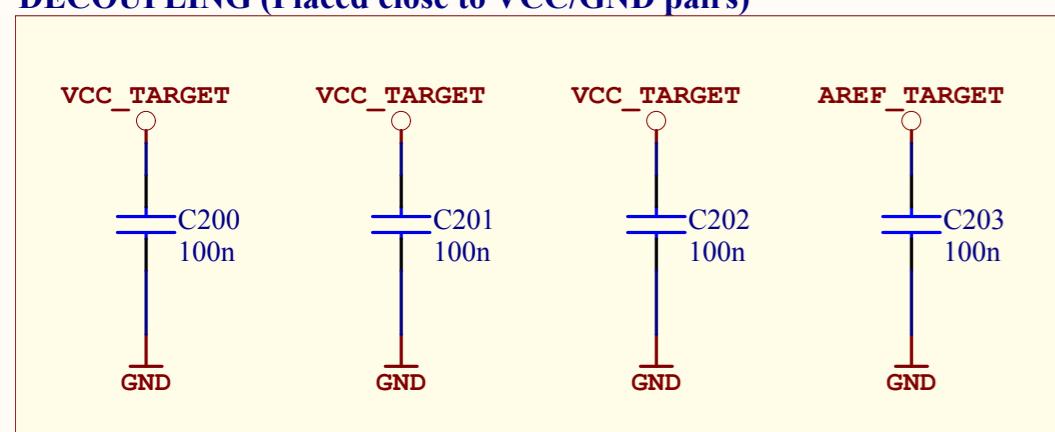
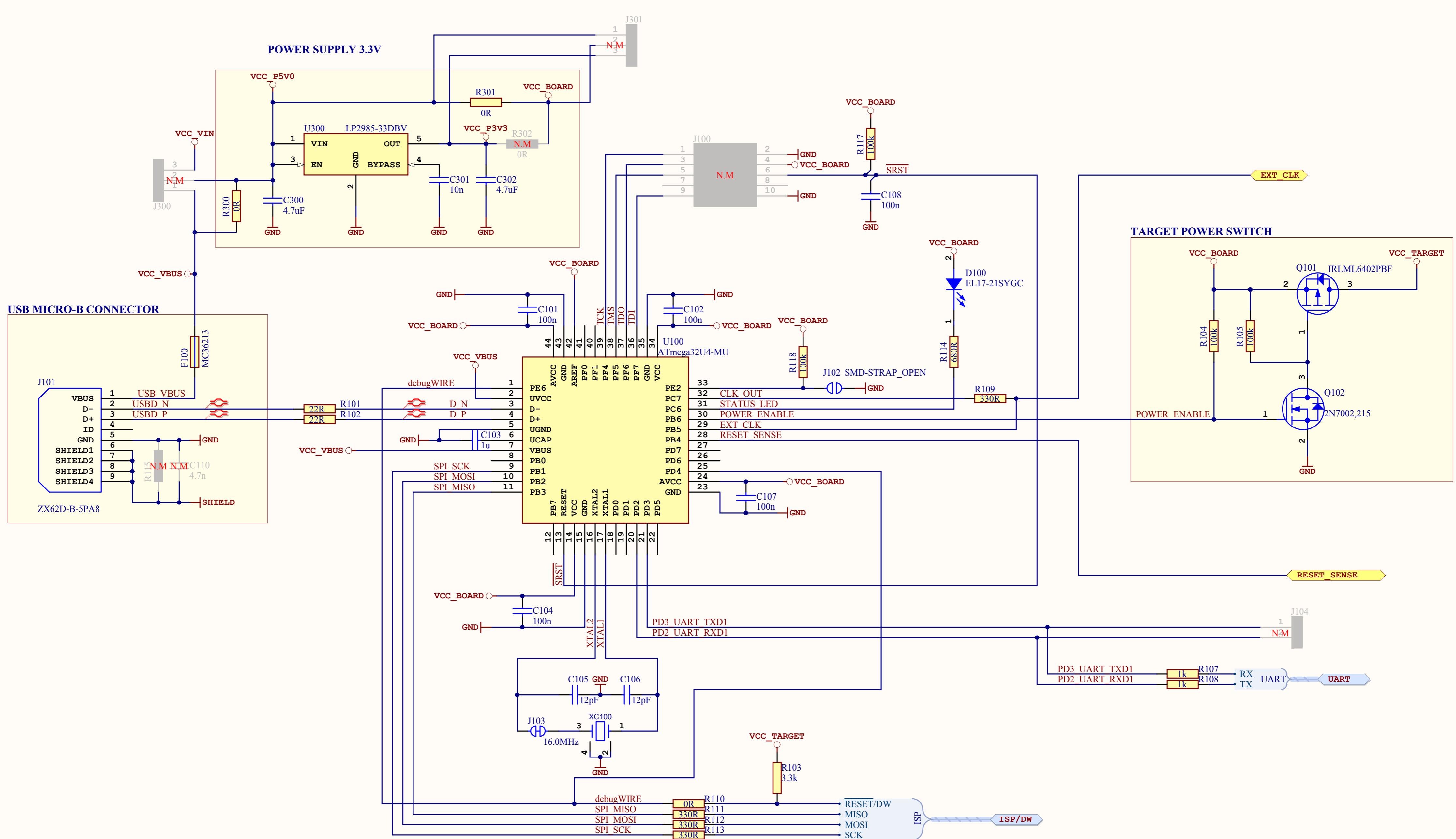


**D**

ATMEL Norway	*					
Vestre Rosten 79	*					
N-7075 TILLER	*					
NORWAY						
Date:	5/5/2014	8:09:21 PM	PAGE: 1 of 3			
Document number:	A09-2323		Revision:	2		
TITLE: ATmega328P_Xplained Mini						
ATmega328P_Xplained_Mini_TopLevel.SchDoc						

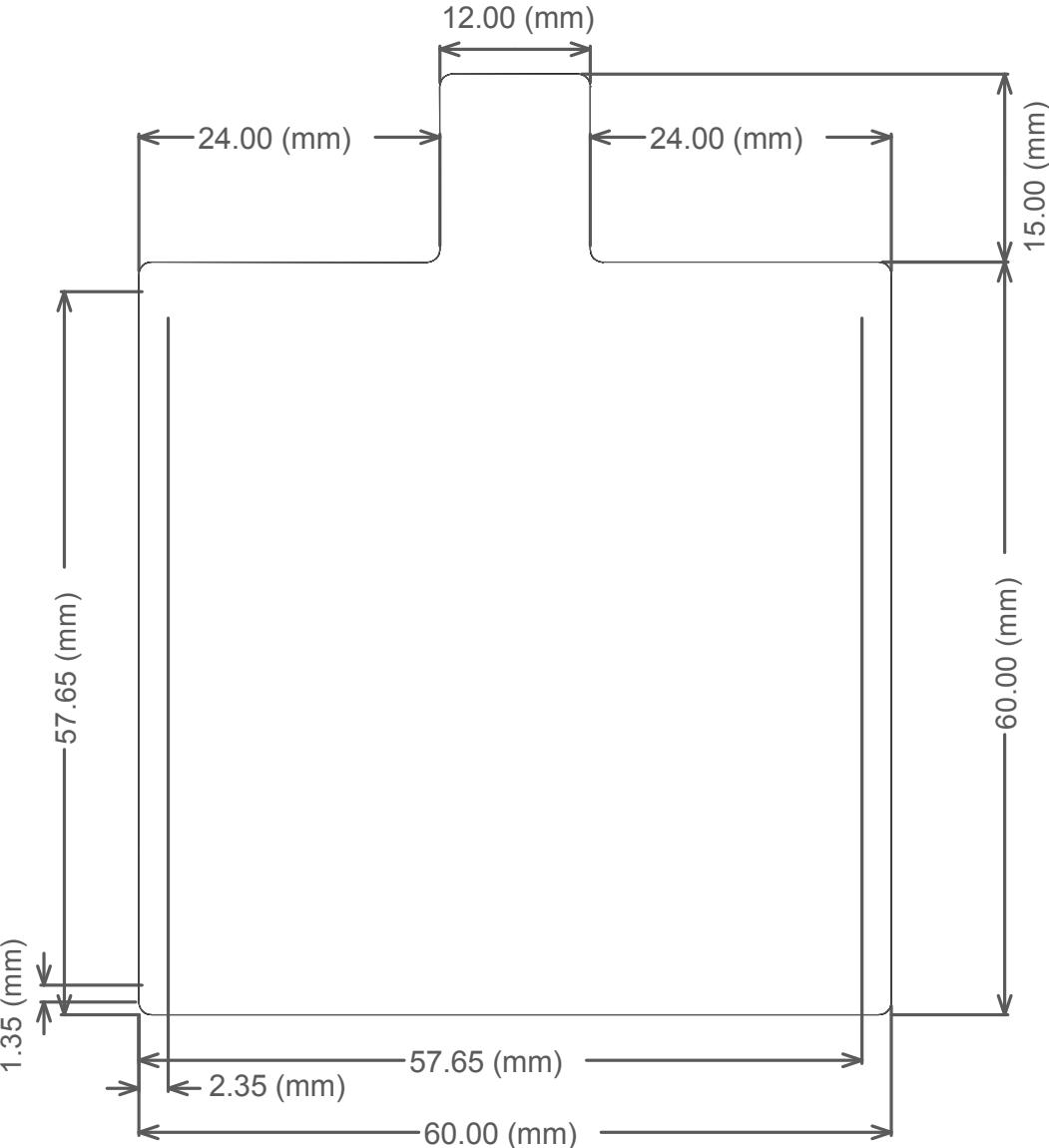
**DECOUPLING (Placed close to VCC/GND pairs)**

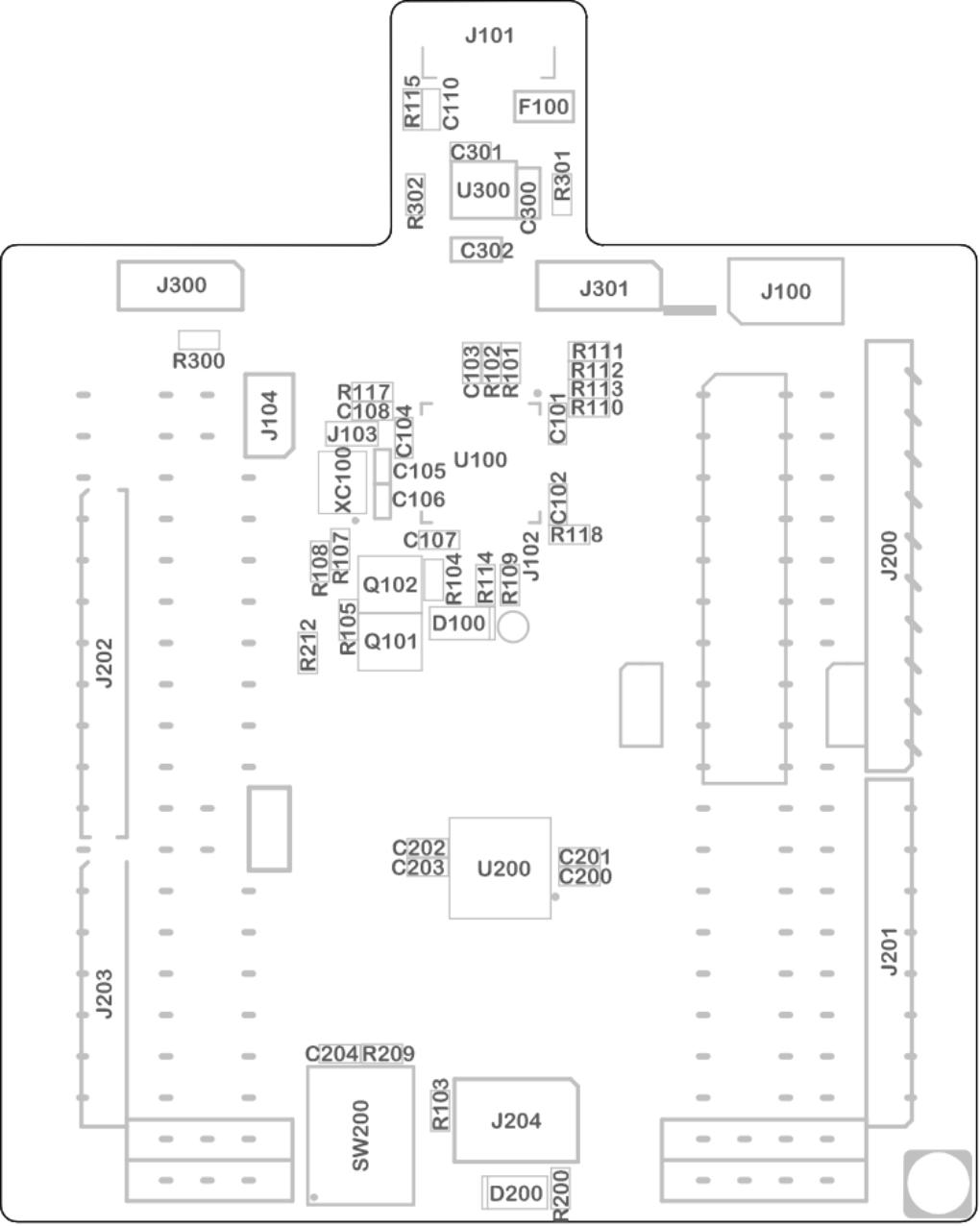
ATMEL Norway	*	<b>Atmel</b> Enabling Unlimited Possibilities
Vestre Rosten 79	*	
N-7075 TILLER	*	
NORWAY		
Date:	5/5/2014	8:09:21 PM
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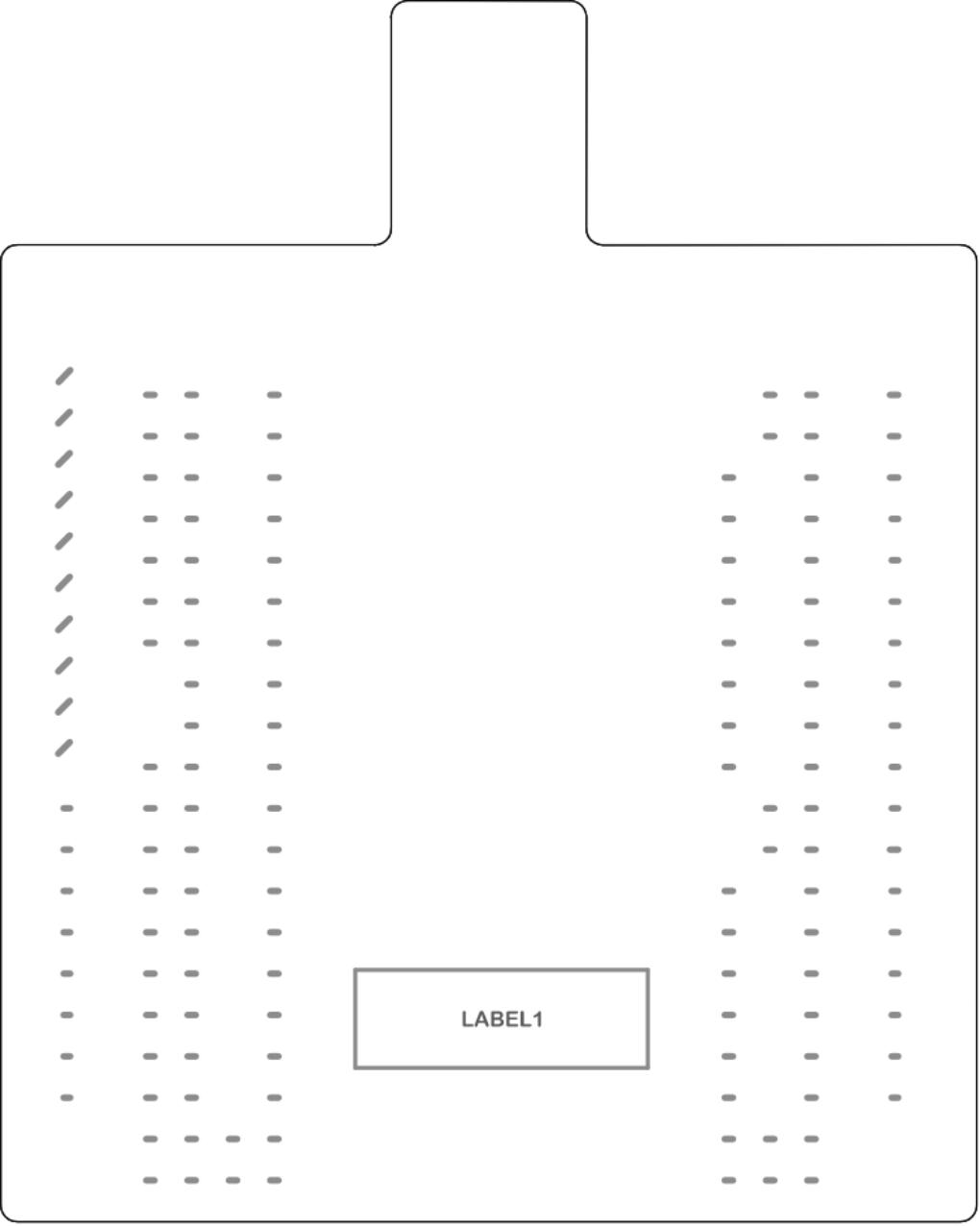


ATMEL Norway	*			
Vestre Rosten 79	*			
N-7075 TILLER	*			
NORWAY				
Date:	5/5/2014	8:09:21 PM	PAGE:	3 of 3
Document number:	A09-2323		Revision	2
TITLE: ATmega328P Xplained Mini				
ATmega328P_Xplained_Mini_Programmer.SchDoc				

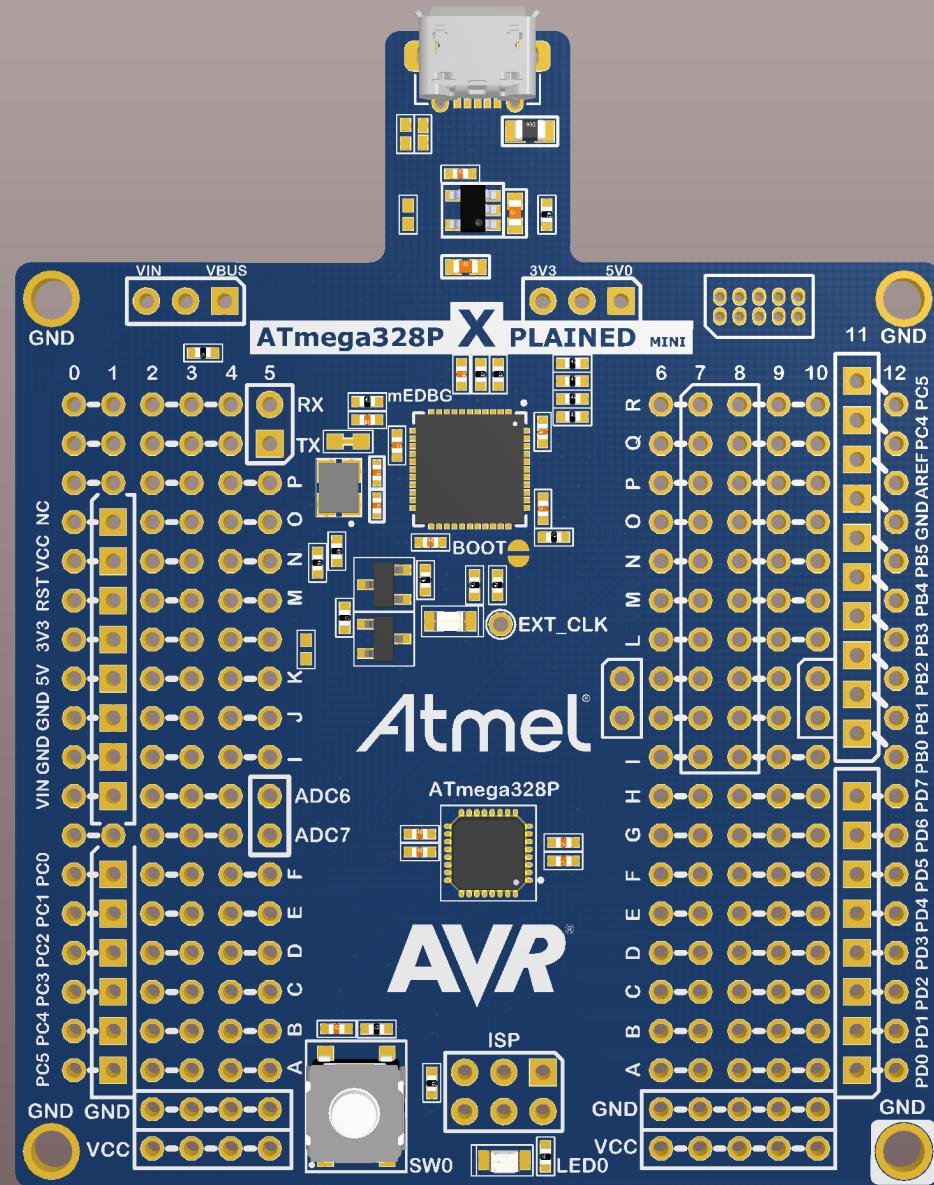
# Mechanical Dimensions

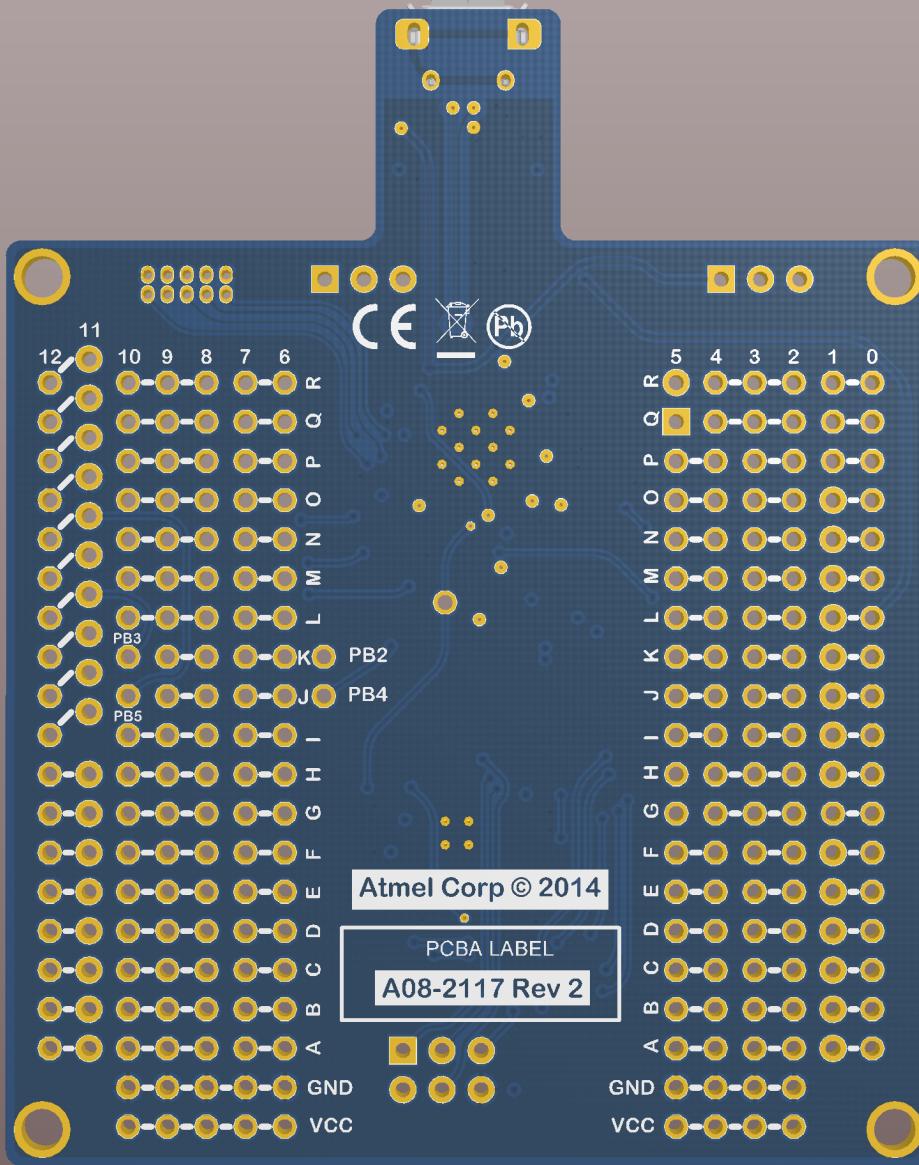


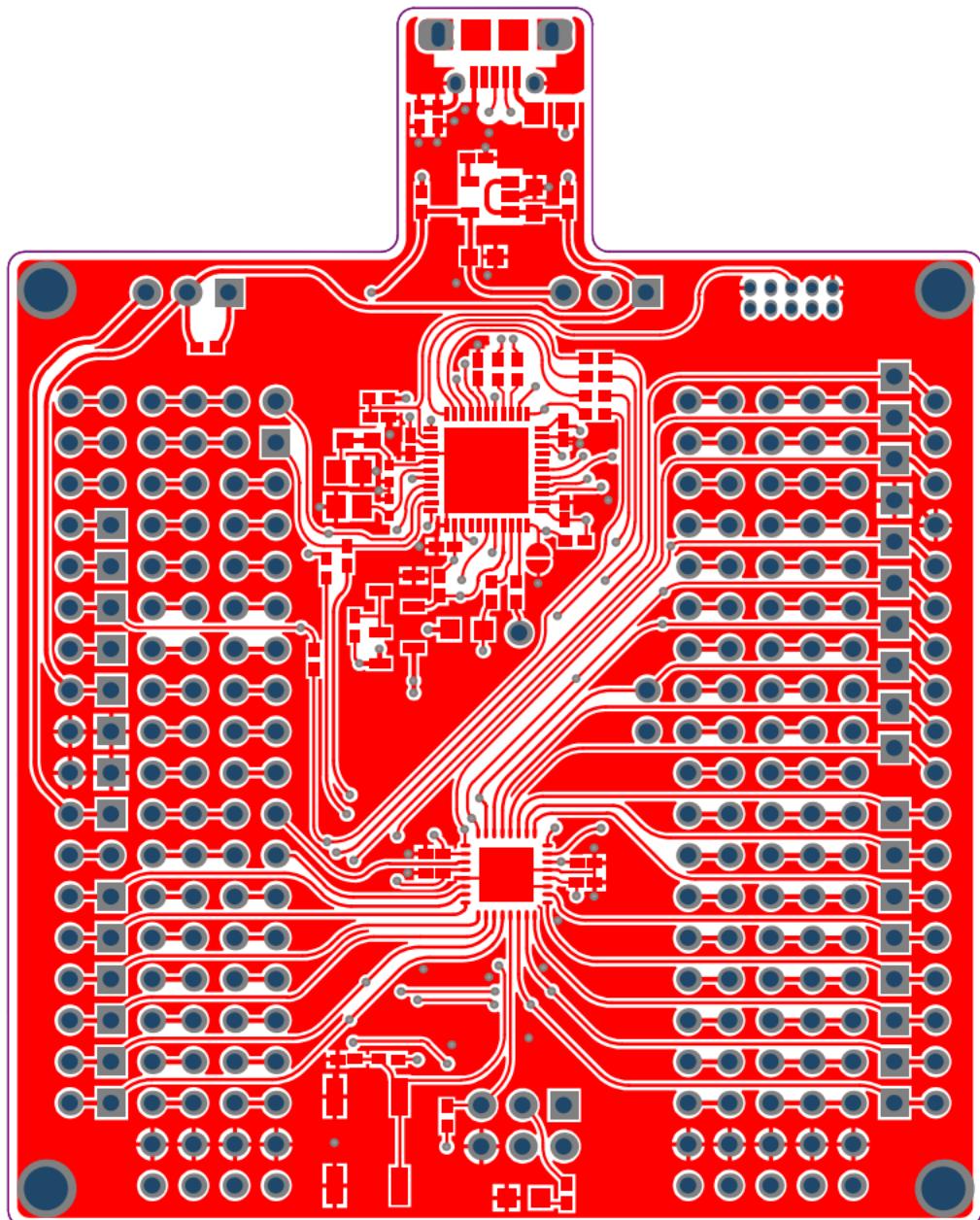


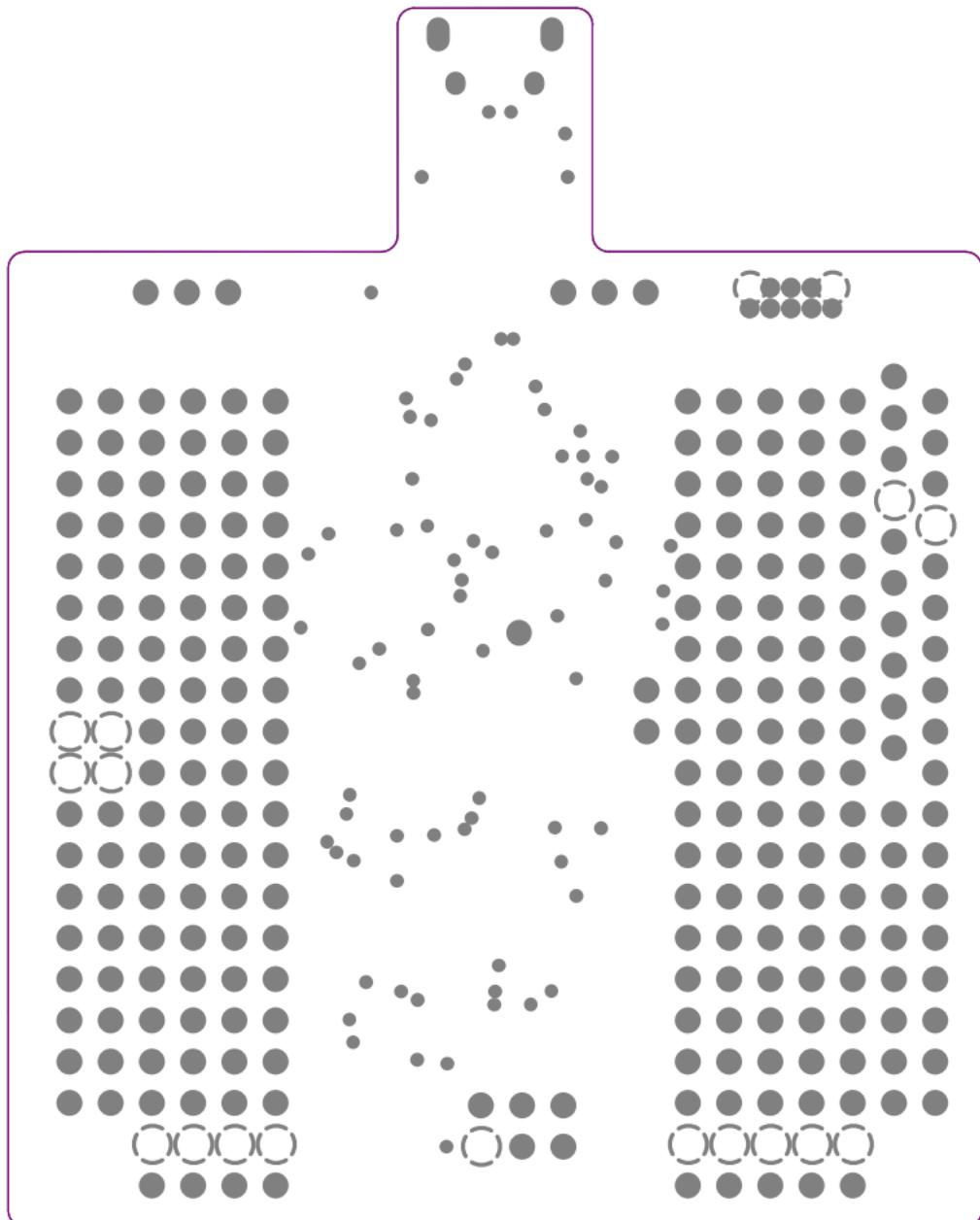


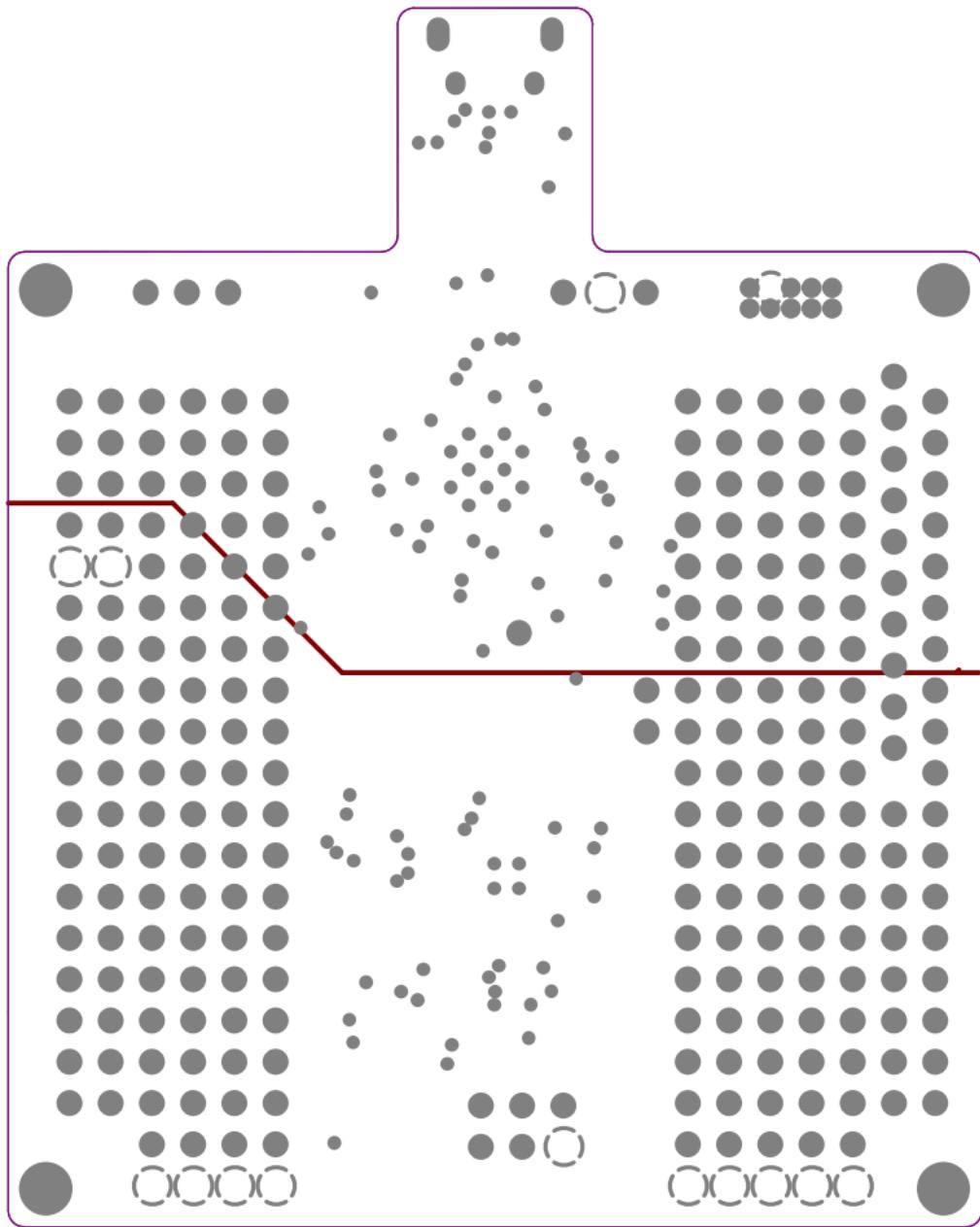
LABEL1

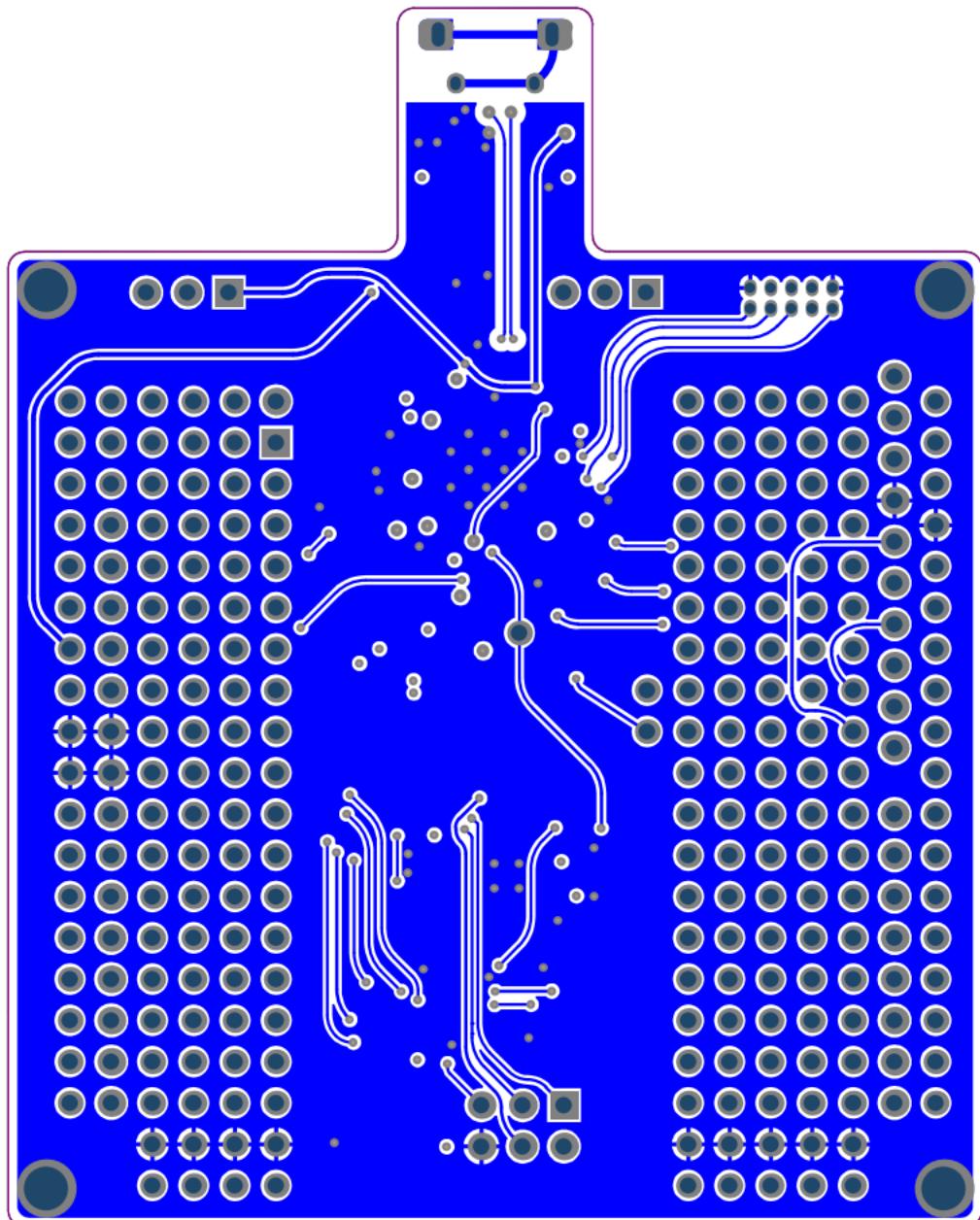












## Component list

ATmega328P Xplained Mini

**Source Data From:**  
**Project:**

## ATmega328P\_Xplained\_Mini.PrjPCB

Data From:  
Project:

## ATmega328P\_Xpl

Report Date: 5/5/2014 8:09:41 PM  
Print Date: 5/5/2014 8:09:39 PM

8:09:41 PM

Source Data From:		ATmega328P_Xplained_Mini.PrjPCB		ATmega328P_Xplained_Mini.PrjPCB		Default_assembly	
Report Date:	5/5/2014	Print Date:	8:09:41 PM	Print Date:	5/5/2014	Notes	8:09:39 PM
Fitted	Designator	Quantity	Value	Manufacturer	MPN	Description	
Fitted	C101, C102, C104, C107, C108, C200, C201, C202, C203, C204	10	100n	Kemet	C0402C104K4RACTU	Ceramic capacitor, SMD 0402, X7R, 16V, +/-10%	
Fitted	C103	1	1u	Kemet	C0402C105K9PAC	Ceramic capacitor, SMD 0402, X5R, 6.3V, +/-10% (de26942)	
Fitted	C105, C106	2	12pF	Kyocera-elco	CM05GCG12050AH	Ceramic capacitor, SMD 0402, NP0, 50V, +/-5% (de19819)	
Fitted	C300, C302	2	4.7uF	AVX	0603D475KA72A	Ceramic capacitor, SMD 0603, X5R, 10V, +/-10%	
Fitted	C301	1	10n			Ceramic capacitor, SMD 0402, X7R, 25V, +/-10%	
Fitted	D100	1	EL17-21SYGC	Everlight	EL17-21SYGC	LED, Green, Wave length=575nm, SMD 0805, +/-7%	
Fitted	D200	1	EL17-21UYCA/3	Everlight	17-21UYC/S530-A3/TR8	LED, Yellow, Wave length=591nm, SMD 0805, +/-7%	
Fitted	F100	1	MC36213	Multicomp	MC36213	Resettable PTC Fuse, Ih = 0.5A, Ith = 1.0A, 0805 package	
Fitted	FV1	1	MBEDG firmware			MBEDG firmware	
Fitted	J101	1	2X62D-B-5PA8	HIROSE	ZX62D-B-5PA8	Micro USB B Connector, Standard SMT + DIP	
Fitted	LABEL1	1	PCBA Label	ACT Logmark AS	505462	PCBA identification label PP Top White Gloss	
Fitted	P0B1	1	ATmega328P-XMINI PCB			ATmega328P-XMINI PCB documentation	
Fitted	PCBADC01	1	ATmega328P-XMINI PCBA doc			ATmega328P-XMINI PCBA documentation	
Fitted	Q101	1	IRML6402PBF	International Rectifier	IRML6402PBF	P-ch. MOSFET, -30V, -3.7A continuous,RDS(ON)=0.05Ohm@VGS=-4.5V, RDS(ON)=0.08Ohm@VGS=-2.5V	
Fitted	Q102	1	2N7002.215	NXP	2N7002.215	N-Channel MOSFET, 60V, 0.300A continuous, 1.2A Peak, RDS(ON) = 3.0Ohm@VGS=4.5V, VGS(th)>2.5V	
Fitted	R101, R102	2	22R	Samsung	RC100SF22R0CS	Thick film resistor, SMD 0402, 1/16W, 1% (de23607)	
Fitted	R103	1	3.3k			Thick film resistor, SMD 0402, 1/16W, 1%	
Fitted	R104, R105, R117, R118, R209	5	100k			Thick film resistor, SMD 0402, 1/16W, 1%	
Fitted	R107, R108, R200	3	1k			Thick film resistor, SMD 0402, 1/16W, 1%	
Fitted	R109, R111, R112, R113	4	330R			Thick film resistor, SMD 0402, 1/16W, 1%	
Fitted	R110, R300, R301	3	0R	(n/a)	RMCF04022T0R00	RES 0.0 OHM 0402 0402 SMD	
Fitted	R114	1	680R			Thick film resistor, SMD 0402, 1/16W, 1%	
Fitted	SW200	1	SKRAAKE010	ALPS	SKRAAKE010	6.2x6.2 mm SMD tact switch, same as A08-0091 but less force is needed	
Fitted	TEST1	1	Test SW for A09-2321			Test SW for A09-2321, ATmega328P-XMINI	
Fitted	TESTDOC1	1	ATmega168-XMINI Test Instructions			Fixture Test Instructions for ATmega168-XMINI	
Fitted	U100	1	ATmega32U4-MU	ATMEL	ATmega32U4-MU	ATmega32U4 QFN package	
Fitted	U200	1	ATmega328P-MUR			32k AVR with ADC/TWI/RS-232	
Fitted	U300	1	LP2985-33DBV	Texas Instruments	LP2985-33DBV	LDO 3.3V 150mA SOT23-5 1.5% (cer. cap)	
Fitted	XC100	1	16.0MHz	Epson Toyocom	TSX-3226 16.000MHz09Z-AC3	16MHz x16, 3.2 x 2.5 mm SMD, CL=<9pF, 15PF, ESR<600hm Max.	
Not Fitted	C110	0	4.7n			Ceramic capacitor, SMD 0402, 1/16W, 1%	
Not Fitted	J100	0	PIN HEADER 2x5	Garry	STL21-0730 G TT-10U	2x5 pin header, 1.27mm pitch, THM	
Not Fitted	J104	0	HMTSW-102-23-F-S-237	SAMTEC	HMTSW-102-23-F-S-237	1x2 pin header, 2.54mm pitch, Pin-in-Paste THM	
Not Fitted	J200	0	SSQ-110-21-F-S	SAMTEC	SSQ-110-21-F-S	1x10 recepable pin header, low insertion force, 2.54mm pitch THM, Pin in Paste	
Not Fitted	J201, J202	0	SSQ-108-21-F-S	SAMTEC	SSQ-108-21-F-S	1x8 recepable pin header, low insertion force, 2.54mm pitch THM, Pin in Paste	
Not Fitted	J203	0	SSQ-106-21-F-S	SAMTEC	SSQ-106-21-F-S	1x6 recepable pin header, low insertion force, 2.54mm pitch THM	
Not Fitted	J204	0	MTSW-103-08-L-D-276	SAMTEC	MTSW-103-08-L-D-276	2x3 pin header, 2.54 mm pitch, THM	
Not Fitted	J300, J301	0	HMTSW-103-23-F-S-237	SAMTEC	HMTSW-103-23-F-S-237	1x3 pin header, 2.54mm pitch, Pin-in-Paste THM, 1mm hole	
Not Fitted	R115	0	1M			Thick film resistor, SMD 0402, 1/16W, 1%	
Not Fitted	R212, R302	0	0R	(n/a)	RMCF04022T0R00	RES 0.0 OHM 1/16W 0402 SMD	