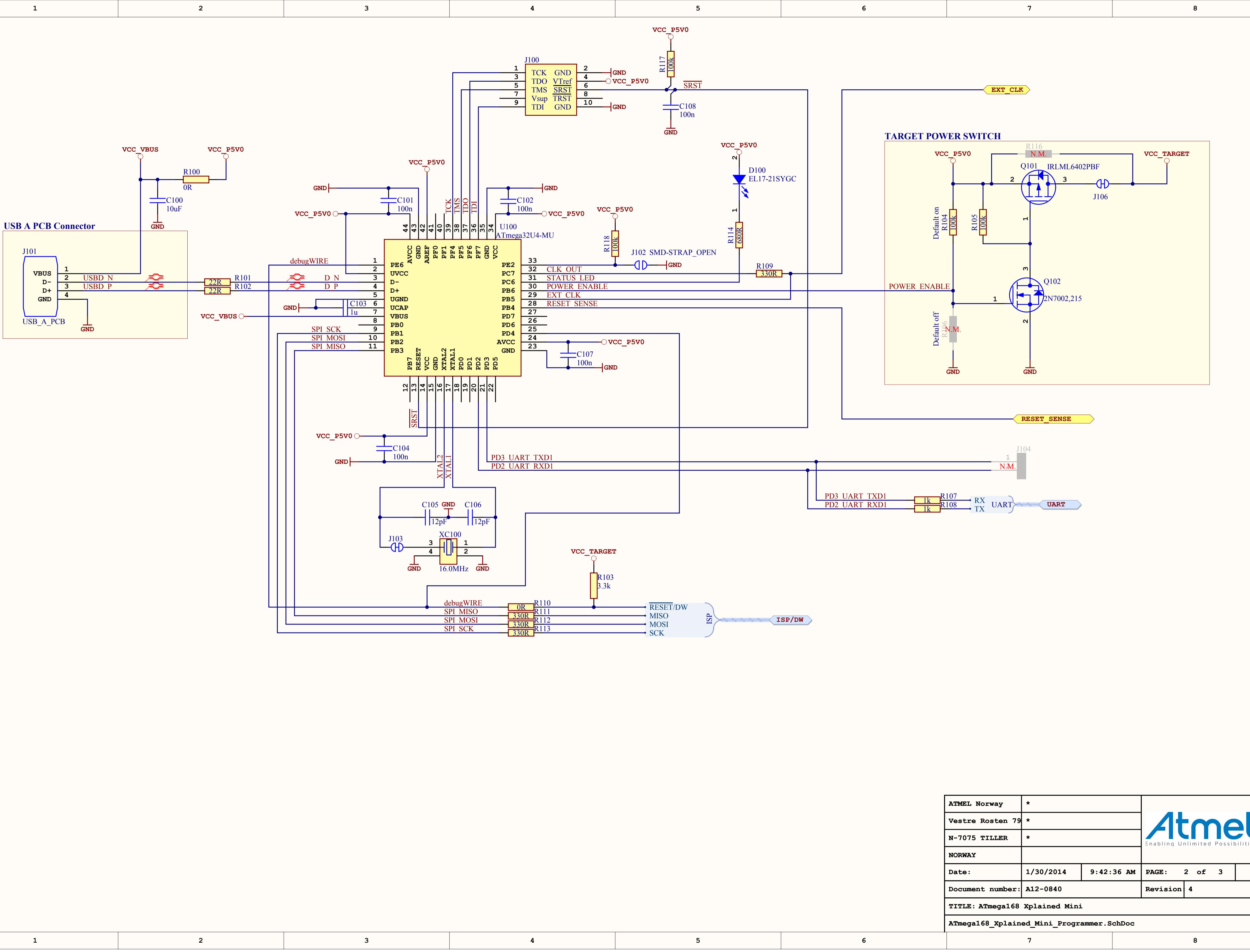
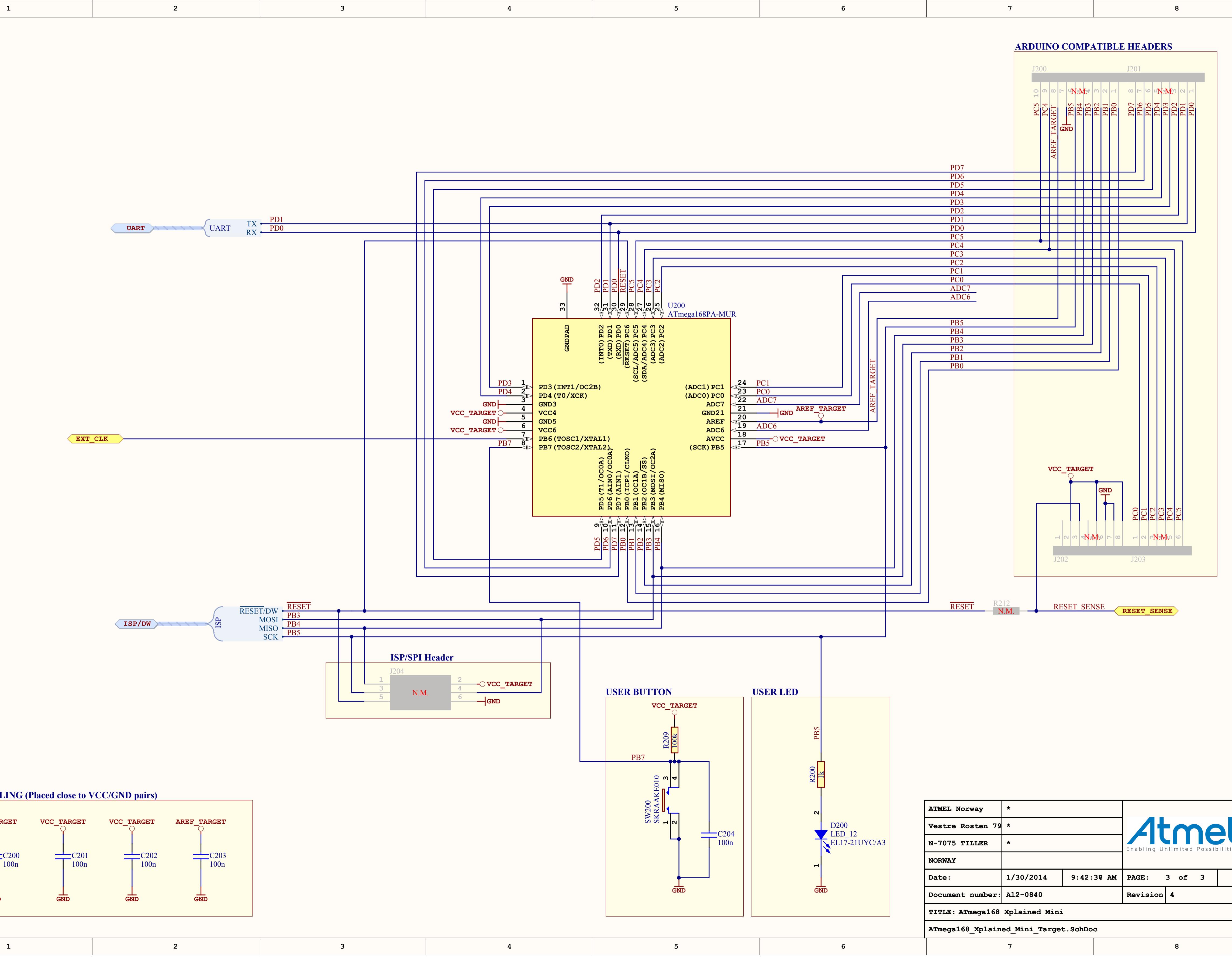


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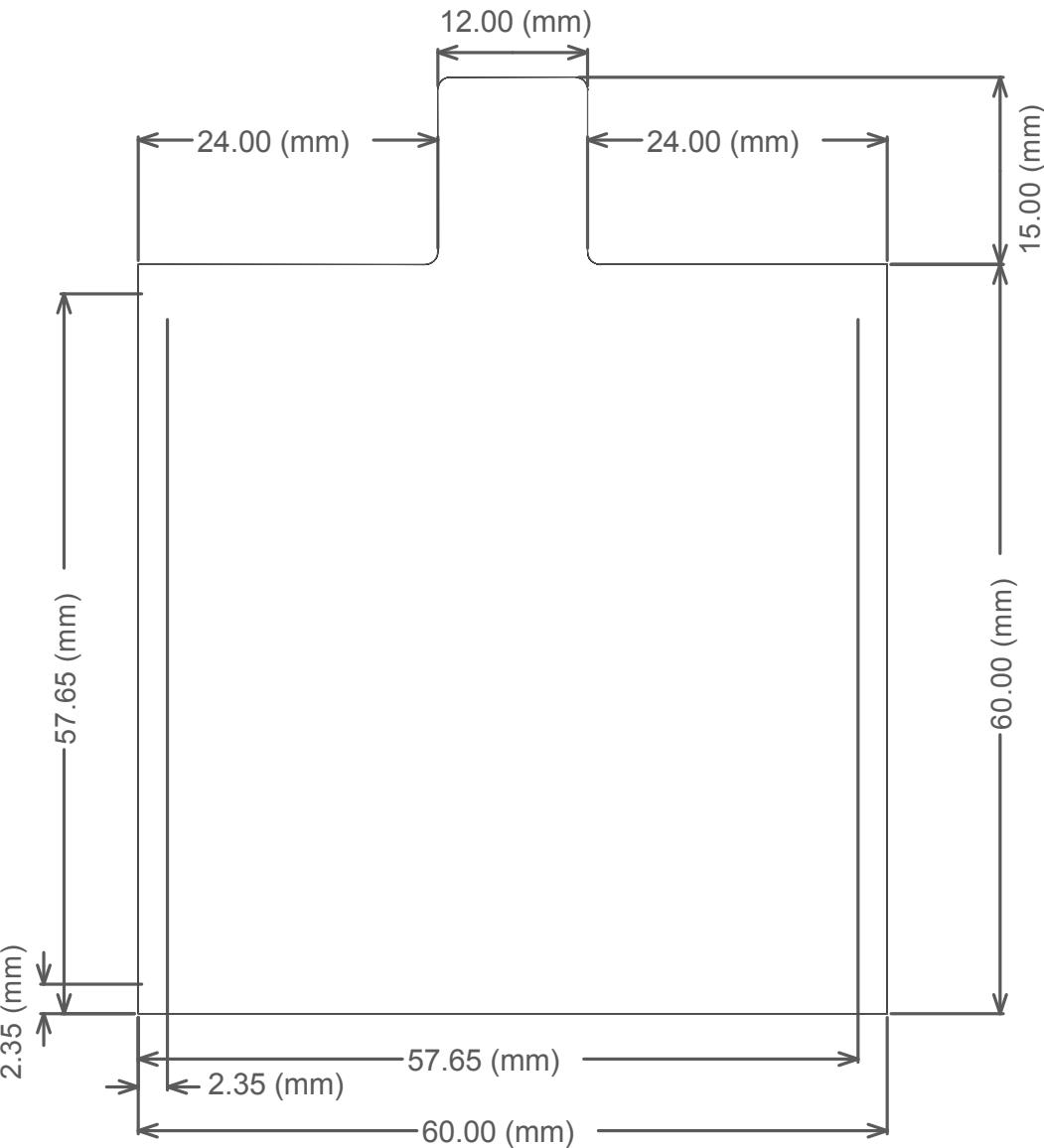
ATMEL Norway	*		
Vestre Rosten 79	*		
N-7075 TILLER	*		
NORWAY			
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Document number:	A12-0840	Revision	4
TITLE: ATmega168 Xplained Mini			
ATmega168_Xplained_Mini_TopLevel.SchDoc			

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Enabling Unlimited Possibilities





Mechanical Dimensions



J101

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AVR X PLAINED MINI

GND

0 1 2 3 4 5

PC5 PC4 PC3 PC2 PCI PC0

PC1 PC0

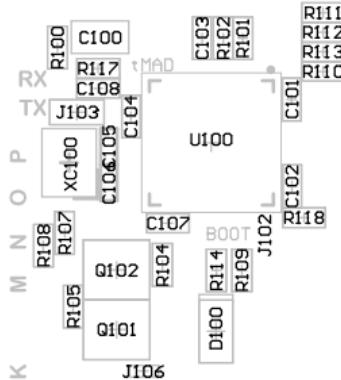
GND GND



R103

R200

D200



11 GND

6

7

8

9

10

12

U100

U200

C202 C203

C201 C200

C204R209

R103

R200

D200

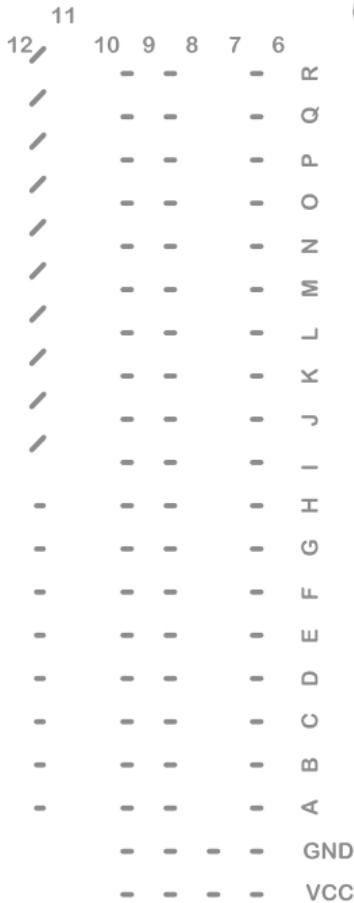
GND VCC

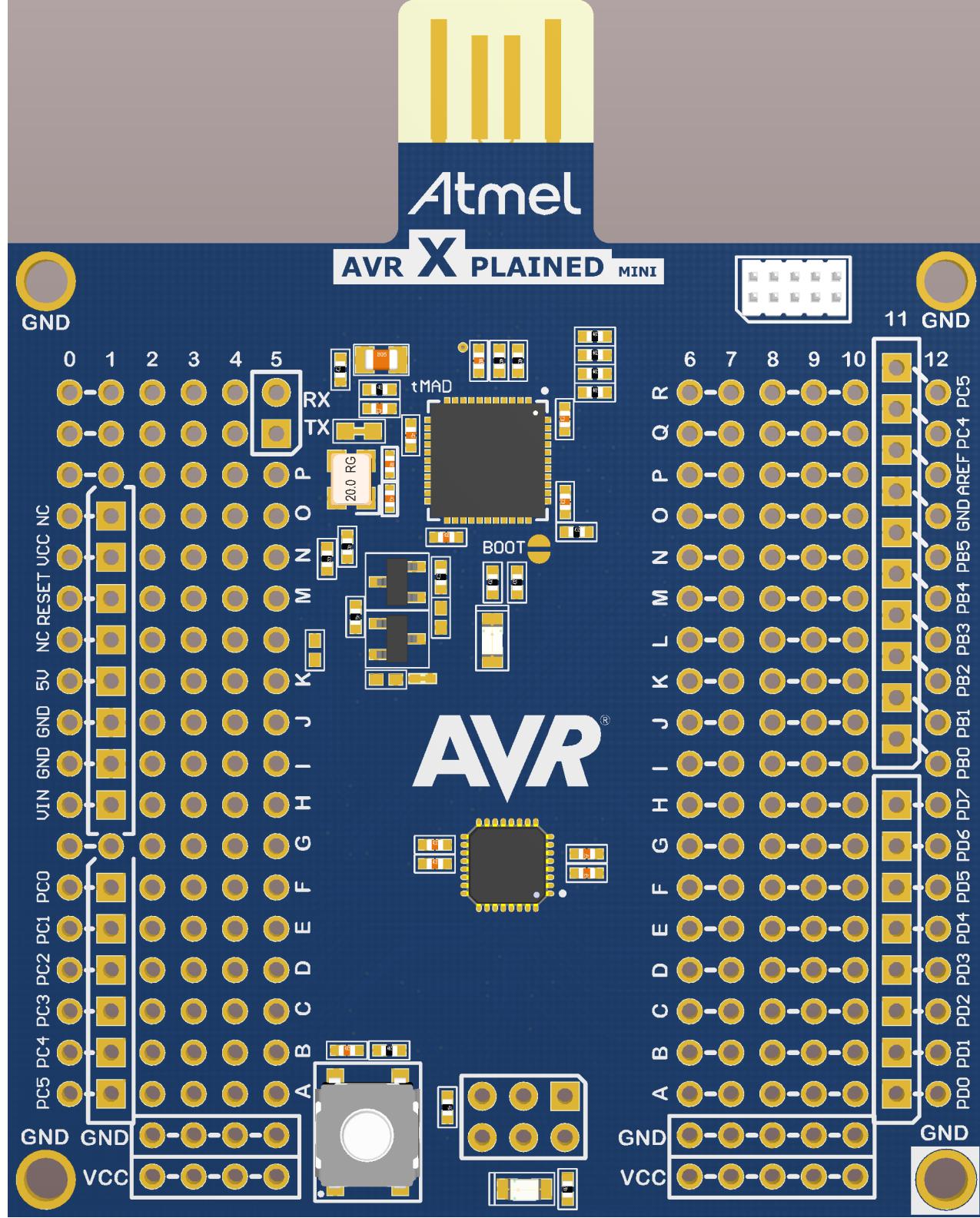
GND V

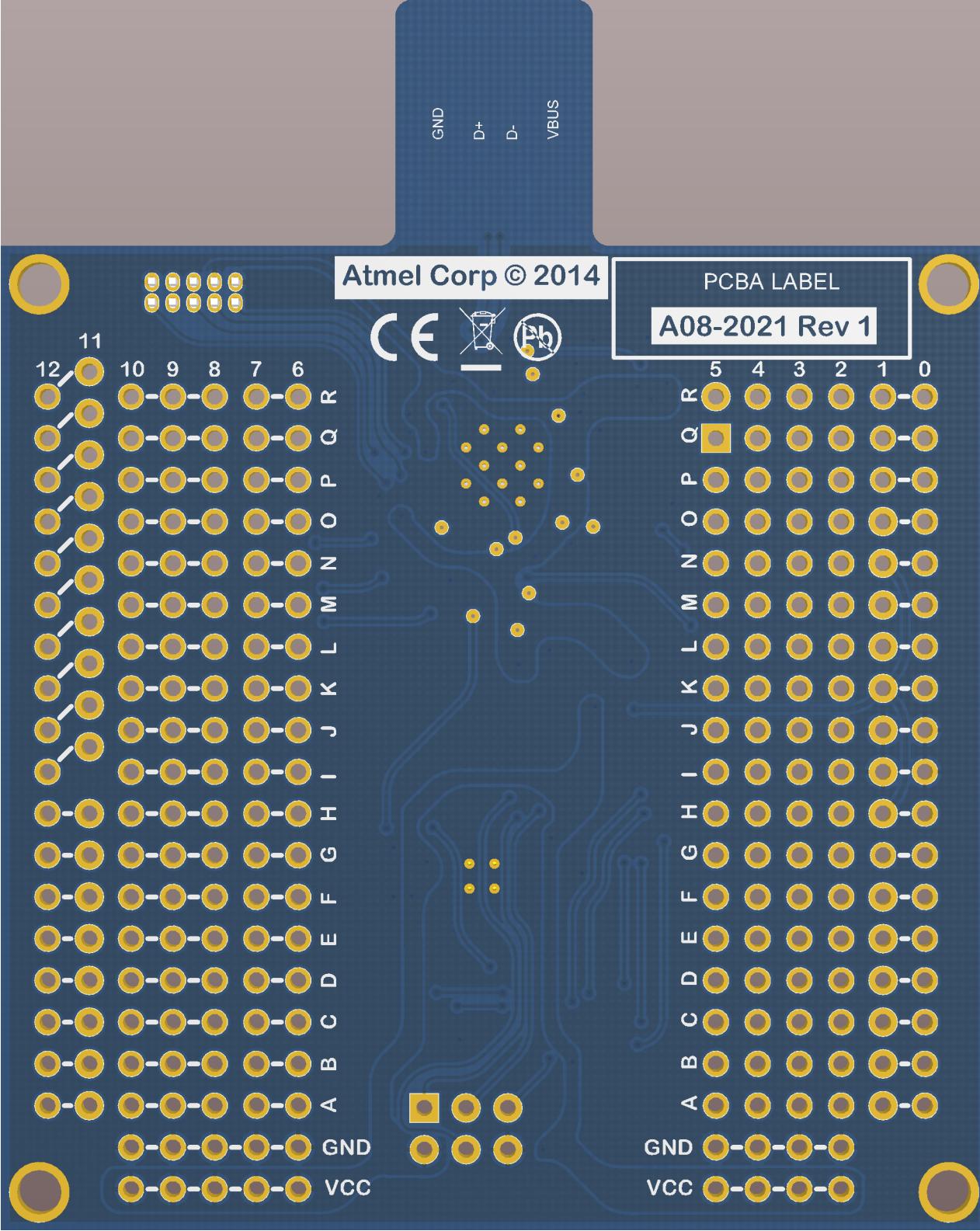
Atmel Corp © 2014

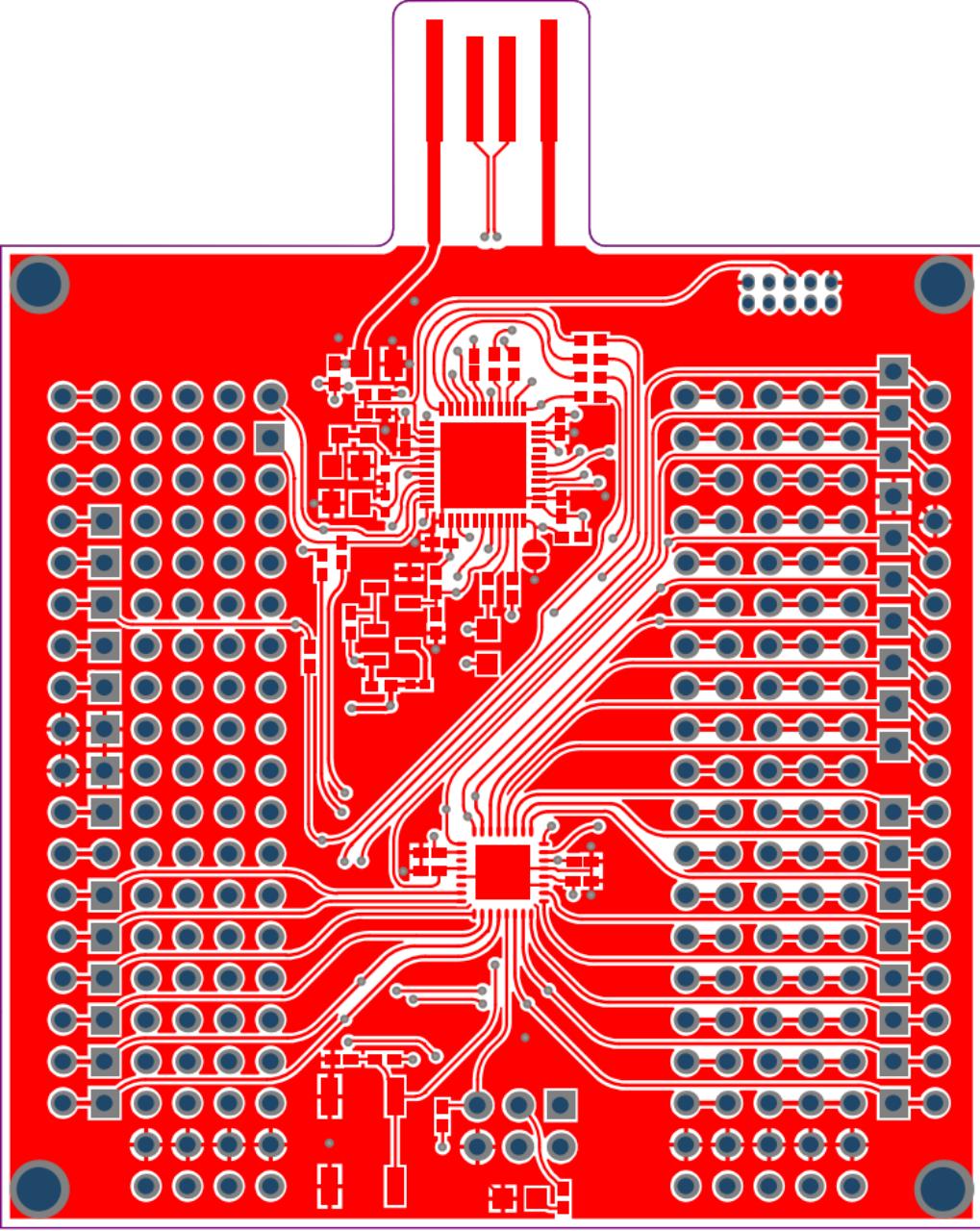


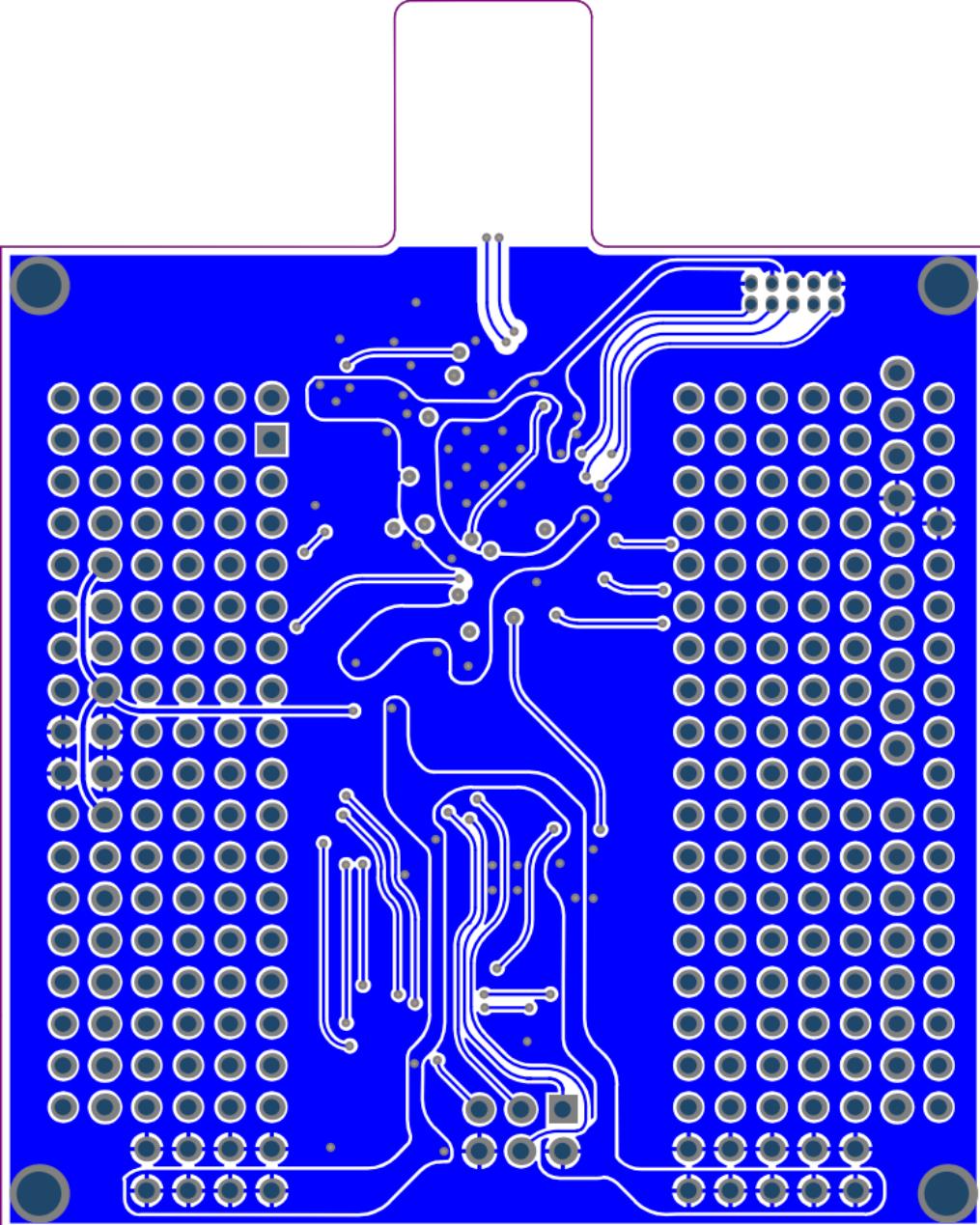
PCBA LABEL
LABEL1
A08-2021 Rev 1











Component list

Source Data From: ATmega168_Xplained_Mini.PjPCB
 Project: ATmega168_Xplained_Mini.PjPCB
 Variant: Default_assembly



Report Date: 1/30/2014 9:42:52 AM					
Print Date: 1/30/2014 9:42:51 AM					
Fitted	Designator	Quantity	Value	Manufacturer	MPN
Fitted	C100	1	10uF	Murata	GRM21BR61A106KE19L
Fitted	C101, C102, C104, C107, C108, C200, C201, C202, C203, C204	10	100n	Kemet	C0402C104K4RACTU
Fitted	C103	1	1u	Kemet	C0402C105K9PAC
Fitted	C105, C106	2	12pF	Kyocera-elco	CM08CG120J50AH
Fitted	D100	1	EL-17-21SYGC	Brightlight	EL-17-21SYGC
Fitted	D200	1	EL-17-21UY/G/A3	Brightlight	17-21UY/G/S530-A3/TR8
Fitted	FW1	1	MEDBG_firmware		
Fitted	J100	1	PIN HEADER 2x5	Garry	STL21-0730.G.TT-10U
Fitted	LABEL1	1	PCBA_Label	ACT Logimark AS	505462
Fitted	PCB1	1	AVRMega168PB-XPRO PCB		
Fitted	PCBADOC1	1	A09-2222 PCBA Files		mega168 Xplained Mini PCBA documentation
Fitted	Q101	1	IRML6402PBF	International Rectifier	IRML6402PBF
Fitted	Q102	1	2N7002.215	NXP	2N7002.215
Fitted	R100	1	0R	(n/a)	RMOF0402ZT0R00
Fitted	R101, R102	2	22R	Samsung	RC100SF22R0CS
Fitted	R103	1	3.3k		
Fitted	R104, R105, R117, R209	4	100k		
Fitted	R107, R108, R200	3	1k		
Fitted	R109, R111, R112, R113	4	330R		
Fitted	R110	1	0R	(n/a)	RMOF0402ZT0R00
Fitted	R114	1	680R		
Fitted	R118	1	100k		
Fitted	SW200	1	SKRAAKE010	ALPS	SKRAAKED10
Fitted	TEST1	1	Test SW for A09-2222		6.2x6.2 mm SMD tact switch, same as A08-0091 but less force is needed
Fitted	TESTDOC1	1	ATmega168-XMINI Test Instructions		Fixture Test Instructions for ATmega168-XMINI
Fitted	U100	1	ATmega32U4-MU	ATMEL	ATmega32U4-MU
Fitted	U200	1	ATmega168PA-MUR	ATMEL	ATmega168PA-MUR
Fitted	XC100	1	16.0MHz	GEYER ELECTRONIC	12.88785
Not Fitted	J104	0	HMTSW-102-23-F-S-237	SAMTEC	HMTSW-102-23-F-S-237
Not Fitted	J200	0	SSQ-110-21-F-S	SAMTEC	SSQ-110-21-F-S
Not Fitted	J201, J202	0	SSQ-108-21-F-S	SAMTEC	SSQ-108-21-F-S
Not Fitted	J203	0	SSQ-106-21-F-S	SAMTEC	SSQ-106-21-F-S
Not Fitted	J204	0	MTSW-103-08-L-D-276	SAMTEC	MTSW-103-08-L-D-276
Not Fitted	R106	0	100k		
Not Fitted	R116, R212	0	0R	(n/a)	RMOF0402ZT0R00

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Approved

Notes