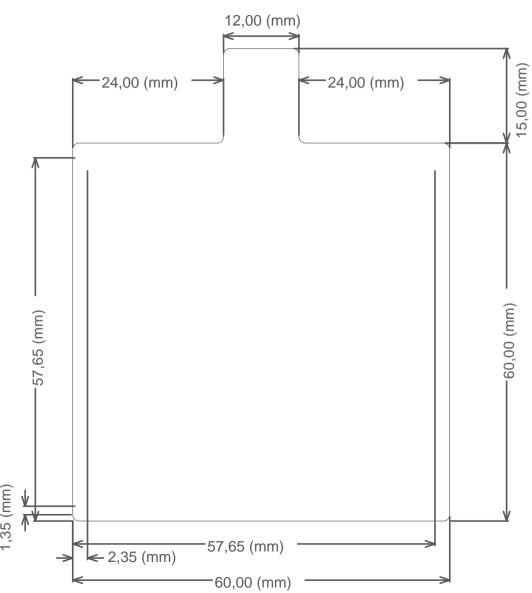
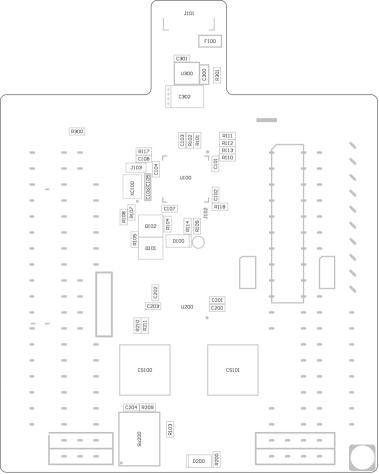
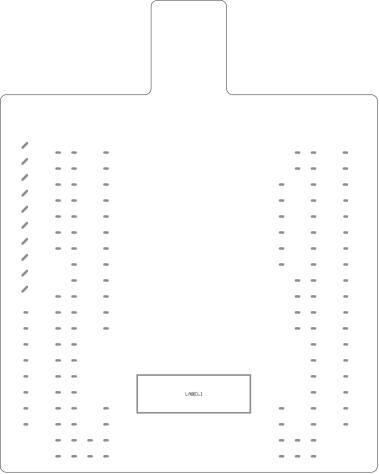
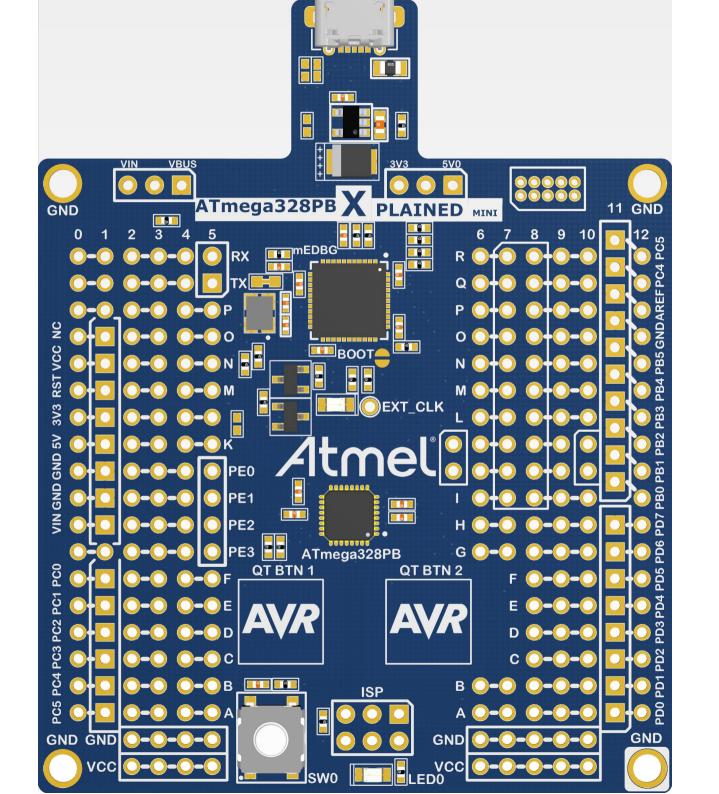


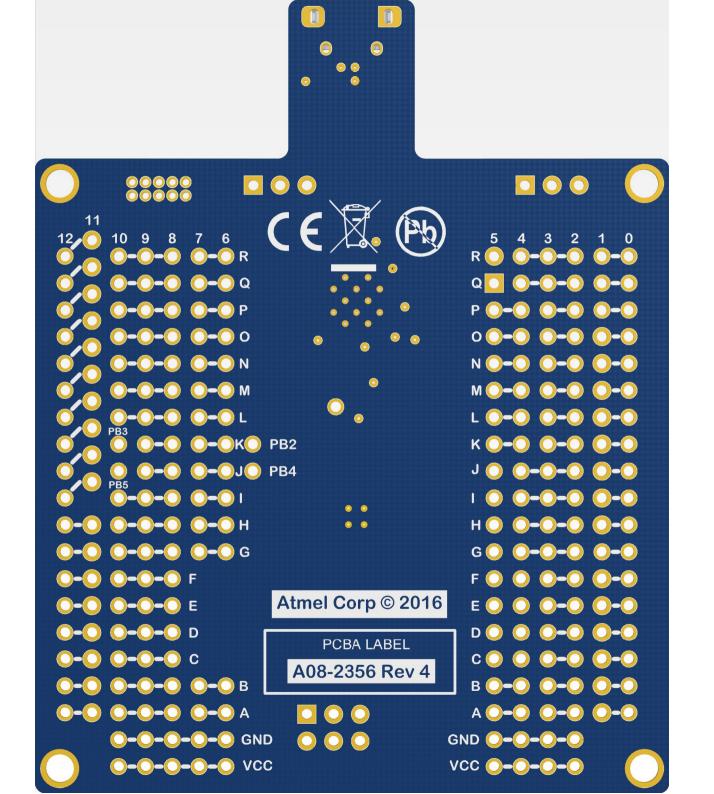
Mechanical Dimensions

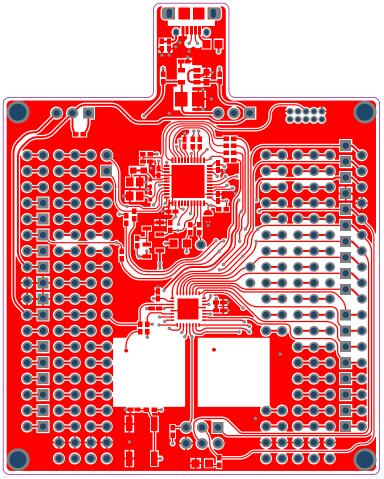


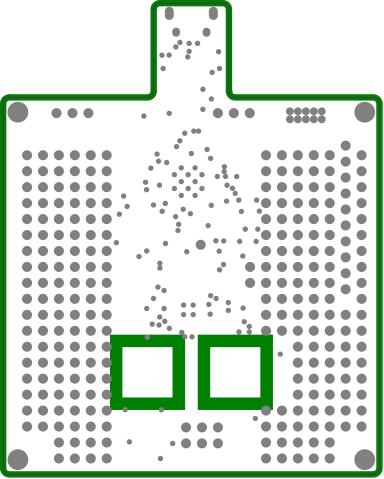


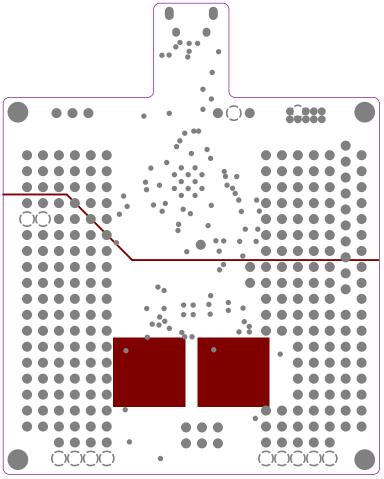


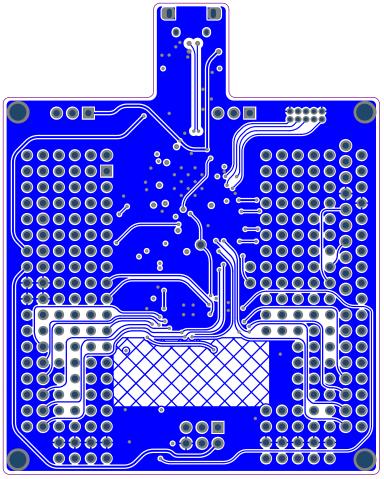












Component list

Bill of Materials Fitted For Variant [Default_assembly] of Project [ATmega328PB_Xplained_Mini.PrjPCB] (No PCB Document Selected)

Source Data From: Project: ATmega328PB_Xplained_Mini.PrjPCB ATmega328PB_Xplained_Mini.PrjPCB

Variant:

Default_assembly

04.01.2017

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	Report Date:	04.01.2017	11:00:40				
	Print Date:	04.01.2017	10:55:13				
Fitted	Designator	Quantity	Value	Manufacturer	MPN Description		
Fitted	C101, C102, C104, C107, C108,	10	100n	Kemet	C0402C104K4RACTU	Ceramic capacitor, SMD 0402, X7R, 16V, +/-10%	
	C200, C201, C202, C203, C204					· · · · · · · · · · · · · · · · · · ·	
Fitted	C103	1	1u	Kemet	C0402C105K9PAC	Ceramic capacitor, SMD 0402, X5R, 6.3V, +/-10% (de26942)	
Fitted	C105, C106	2	12pF	Kyocera-elco	CM05CG120J50AH	Ceramic capacitor, SMD 0402, NP0, 50V, +/-5% (de19819)	
Fitted	C300	1	4.7uF	AVX	0603ZD475KAT2A	Ceramic capacitor, SMD 0603, X5R, 10V, ±10 %	
Fitted	C301	1	10n	YAGEO CORP	CC0402KRX7R8BB103	Ceramic capacitor, SMD 0402, X7R, 25V, +/-10%	
Fitted	C302	1	47uF/6V	Kemet	T494B476M006AT	SMD tantalum capacitor, precision molded chip, ESR=0,5	
Fitted	D100	1	EL17-21SYGC	Everlight	EL17-21SYGC	LED, Green, Wave length=575nm, SMD 0805, ±70°	
Fitted	D200	1	EL17-21UYC/A3	Everlight	17-21UYC/S530-A3/TR8	LED, Yellow, Wave length=591nm, SMD 0805, ±70°	
Fitted	F100	1	MC36213	Multicomp	MC36213	Resetable PTC fuse, lh = 0.5A, lt = 1.0A, 0805 package	
Fitted	FW1	1	MEDBG firmware			MEDBG firmw are	
Fitted	J101	1	ZX62D-B-5PA8	HROSE	ZX62D-B-5PA8(30)	Micro USB B Connector, Standard SMT + DIP	
Fitted	LABEL1	1	Label PCBA	ACT Logimark AS	505462	PCBA identification label PP Top White Gloss	
Fitted	PCB1	1	ATmega328PB-XMINI PCB			ATmega328PB-XMINI PCB documentation	
Fitted	PCBADOC1	1	A09-2523 PCBA Files			mega328PB Xplained Mini PCBA documentation	
Fitted	Q101	1	IRLML6402	International Rectifier	IRLML6402PBF	P-ch. MOSFET30V, -3.7A continuous,RDS(ON)=0.050hm@VGS=-4,5V, RDS(ON)=0.080hm@VGS=-2.5V	
Fitted	Q102	1	2N7002,215	NXP	2N7002,215	N-Channel MOSFET. 60V, 0.300A continuous, 1.2A Peak. RDS(ON) = 3.8Ohm@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	ASJ	CR10-3301-FK	Thick film resistor, SMD 0402, 1/16W, 1%	
Fitted	R104, R105, R117, R118, R209, R210, R211	7	100k	ASJ	CR10-1003-FK	Thick film resistor, SMD 0402, 1/16W, 1%	
Fitted	R107, R108, R200	3	1k	ASJ	CR10-1001-FK	Thick film resistor, SMD 0402, 1/16W, 1%	
Fitted	R109, R111, R112, R113	4	330R	ASJ	CR10-3300-FK	Thick film resistor, SMD 0402, 1/16W, 1%	
Fitted	R110, R300, R301	3	0R	(n/a)	RMCF0402ZT0R00	RES 0.0 OHM 1/16W 0402 SMD	
Fitted	R114	1	680R	ASJ	CR10-6800-FK	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 A09-2523			Test SW for A09-2523 ,ATmega328PB Xplained Mini	
Fitted	TESTDOC1	1	Xplained Mini Test Instructions			Fixture Test Instructions forXplained Mini	
Fitted	U100	1	ATmega32U4-MUR	ATMEL	ATmega32U4-MUR	ATmega32U4 QFN package	
Fitted	U200	1	ATmega328PB-MUR	ATMEL	ATmega328PB-MUR	32k AVR with ADC/TWVRS-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-3225 16.0000MF09Z-AC3	16MHz uXtal, 3.2 x 2.5 mm SMD, CL=9pF, 15PPM, ESR=800hm(Max.	
Not Fitted	C110		4.7n	PHY COMP	2238 587 15632	Ceramic capacitor, SMD 0402, X7R, 25V, +/-10% (de35287)	
Not Fitted	J100	0	PIN HEADER 2x5	Garry	176-2-010-0-T-XS0-0730	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 receptacle 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 receptacle 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 receptacle 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	ASJ	CR10-1004-FK	Thick film resistor, SMD 0402, 1/16W, 1%	
Not Fitted	R212, R302	0	0R	(n/a)	RMCF0402ZT0R00	RES 0.0 OHM 1/16W 0402 SMD	
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Approv	Approved		Notes				
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