

Revision History PCB Assembly Rev 1: Design Changes: PCB: PCB revision 1 **PCB Assembly Rev 2:** Design Changes: Added solderstrap jumper with holes between edge connector power (VCC) and VCC_TARGET. PCB Revision 2 Updated J200 (edge pin header connector) with staggered footprint, and adjusted traks, polygons, teardrops, and text accordingly. Drawn By: Microchip Norway

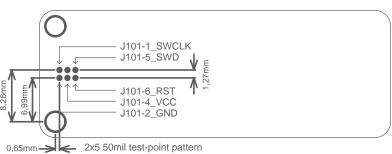
MICROCHIP Engineer: ML, TF Project Title ATtiny1627 Curiosity Nano Altıum. Sheet Title Revision History

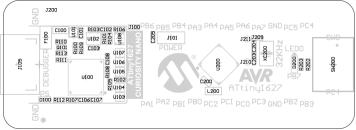
Size A3 PCB Assembly Number: A09-3258 PCBA Revision: 2
PCB Number: A08-2986 PCB Revision: 2 Date: 11.12.2020 Page: 4 of 4

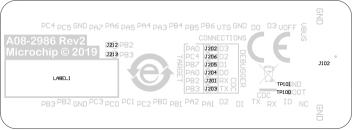


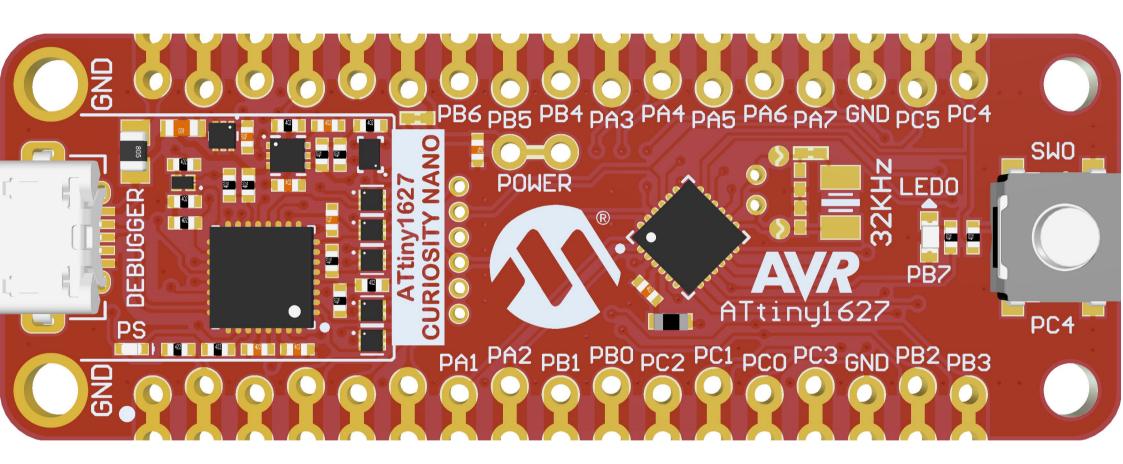
Connector Placement 2,54mm 5,08mm 0000000000000000 10,16mm 0000000000000000 000000000000000 2.54mm 50.80mm

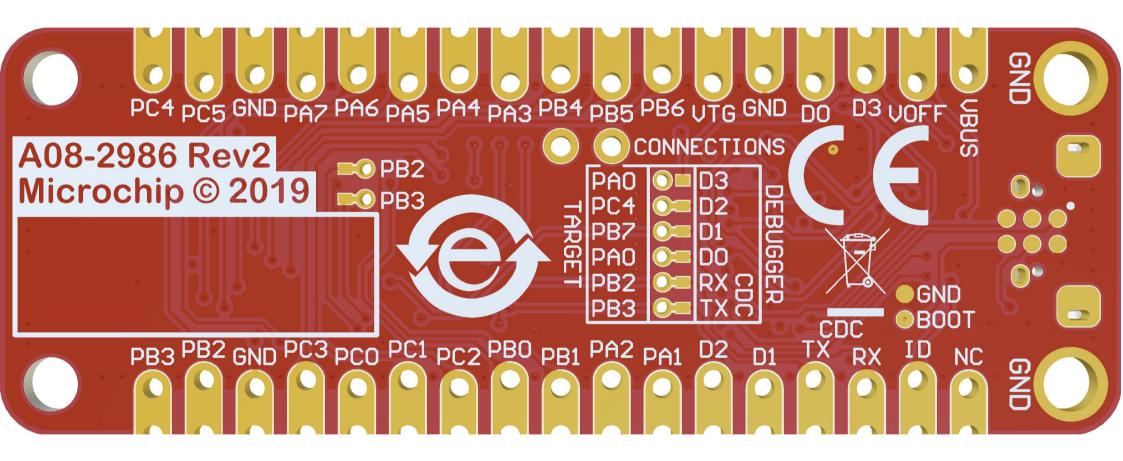
Test Point Placement

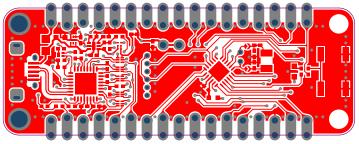


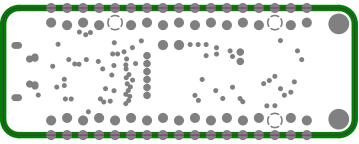


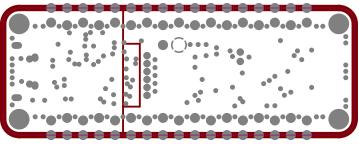


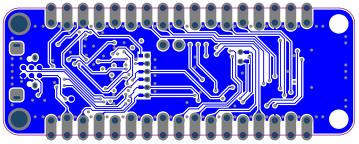












Component list

Bill of Materials Fitted for Variant [Default Assembly] of Project [ATtiny1627 Curiosity Nano.PrjPcb] (No PCB Document Selected)

Source Data From: ATtiny1627 Curiosity Nano.PrjPcb

Project: ATtiny1627 Curiosity Nano.PrjPcb

Variant: Default Assembly

Report Date: 11.12.2020 16:28
Print Date: 11.12.2020 16:28:12



	Print Date:	11.12.2020	16:28:12			
Fitted	Designator	Quantity	Value	Manufacturer	MPN	Description
Fitted	C100	1	4.7uF	WALSIN Technology Corporation	0603X475K100CT	Ceramic capacitor, SMD 0603, X5R, 10V, 10% (de31036)
Fitted	C101	1	2.2uF	Kemet	C0402C225M9PAC	Ceramic capacitor, SMD 0402, X5R, 6.3V, +/-20%
Fitted	C102, C107, C108, C200	4	100n	Kemet	C0402C104K4RA CTU	Ceramic capacitor, SMD 0402, X7R, 16V, +/-10%
Fitted	C103, C205	2	2.2uF	tdk	C1005X5R1A225K	CAP CER 2.2UF 10V 10% X5R 0402
Fitted	C106	1	1u	Kemet	C0402C105K9PAC	Ceramic capacitor, SMD 0402, X5R, 6.3V, +/-10% (de26942)
Fitted	D100	1	GREEN LED	ROHM	SML-P12MTT86R	LED, SMD 0402, Green, Wave length=569nm, 2.1mcd @ (1mA, 1.9Vf)rohm
Fitted	D200	1	YELLOW LED	ROHM	SML-D12Y1WT86	LED, SMD 0603, Yellow, Wave length=590nm, 100mcd @ (20mA, 2.2Vf) rohm
Fitted	F100	1	MC36213	Multicomp	MC36213	Resetable PTC fuse, lh = 0.5A, lt = 1.0A, 0805 package
Fitted	FW1	1	nEDBG firmw are			nEDBG firmw are
Fitted	J105	1	MU-MB0142AB2-269	Allen Creations Corp.	MU-MB0142AB2-269	USB micro AB, Surface mount signals and DIP shield
Fitted	L200	1	BLM18PG471SN1	Murata	BLM18PG471SN1	SMD RF inductor 0603. Z=470Ohm (@100MHz), Max R(dc)=0.65Ohm, Max current=1A
Fitted	LABEL1	1	Label PCBA	ACT Logimark AS	505462	PCBA identification label PPTop White Gloss
Fitted	PCB1	1	ATtiny1627 Curiosity Nano PCB FAB Documentation			ATtiny1627 Curiosity Nano PCB FAB Documentation
Fitted	PCBADOC1	1	A09-3258 PCBA Files			ATtiny1627 Curiosity Nano PCBA Documentation
Fitted	Q101	1	DMN65D8LFB	Diodes Incorporated	DMN65D8LFB-7	N-channel MOSFET, DFN1006-3 (SOT883), 60V, 330mA, 40hm
Fitted	R100, R101, R102, R103, R105, R109, R111, R113	8	47k	KOA	RK73H1ETTP4702F	Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R104	1	27k	YA GEO CORP	RC0402FR-0727KL	Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R106	1	33k	ASJ	CR10-3302-FK	Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R107, R108, R110, R112, R202, R203	6	1k	ASJ	CR10-1001-FK	Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	SW200	1	TS604VM1-035CR	Dailyw ell Electronics Co.LTD	TS604VM1-035CR-R	SWITCH, SMD, 260gf, 6.4mm X 6.2mm
Fitted	TEST1	1	ATtiny1627 Curiosity Nano Test			Fixture Test for ATtiny1627 Curiosity Nano
Fitted	TESTDOC1	1	Curiosity Nano Test Instructions			Generic Test Instructions for Curiosity Nano
Fitted	U100	1	SAMD21E18A-MUT	Microchip	ATSAMD21E18A-MUT	Atmel 32-bit RISC MCU 32pin
Fitted	U101	1	MIC5528-3.3YMT	Microchip	MIC5528-3.3YMT-T5	LDO 3.3V 0.5A 6TDFN
Fitted	U102	1	MIC5353	Microchip	MIC5353YMT-TR	500mA Ultra Low Dropout LDO regulator, 2% accuracy, 1.6x1.6mmMLF
Fitted	U103, U104, U105, U106, U107	5	74LVC1T45FW4-7	Diodes Incorporated	74LVC1T45FW4-7	Single-Bit Dual-Supply Transceive, 1.65-5.5 Translation and 3-State Outputs
Fitted	U108	1	MIC94163	Microchip Technology Inc	MIC94163YCS-TR	Loadswitch, Rds(on) = 14.5mohm, 1.0mm x 1.5mm WLCSP, reverse blocking
Fitted	U200	1	ATtiny1627-MFR	Microchip	ATtiny1627-MFR	ATtiny1627 AVR MCU, 24 pin VQFN
Not Fitted	C203, C204	0	4.7p	YAGEO CORP	CC0402CRNPO9BN4R7	Ceramic capacitor, SMD 0402, NP0, 50V, +/-0.25pF
Not Fitted	XC200	0	32.768kHz	Microchip	VMK3-9001-32K7680000TR	Crystal, 32.768kHz, CL=9.0pF, ESR=70kOhm, SMD LxW=3.2 x 1.5mm, 20ppm
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Approved			Notes			