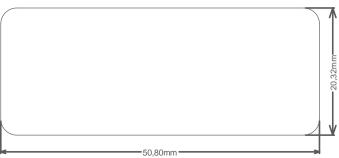
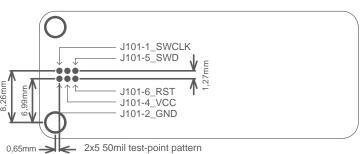


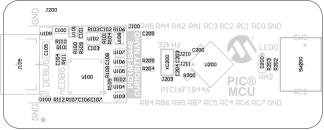
Revision History **PCB Assembly Rev 1:** Design Changes: Initial Design U200, PIC16F18446-I/GZ are engineering samples PCB: PCB revision 1 **PCB Assembly Rev 2:** Design Changes: Replaced Crystal XC200 with a 7pF variant. Replaced C203 & C204 with 5pF Capacitors. U200, PIC16F18446-I/GZ are RTP samples PCB: PCB Revision 1. no change **PCB Assembly Rev 3:** Design Changes: Added reverse blocking switch (U108) Changed 10uF to 4.7uF (C100) PCB Revision 2 Increased board size for ID and VOFF pin Rerouted for target voltage blocking switch **PCB Assembly Rev 4:** Added USB VBUS protection (U109) Added VBUS pin PCB: PCB Revision 3 Increased board size for VBUS pin
Reroute the debugger section for the VBUS pin **PCB Assembly Rev 5:** Design Changes: Added input cap on VBUS (U109) PCB: Drawn By: Microchip Norway **MICROCHIP** PCB Revision 4 Added input cap on U109 PIC16F18446 Curiosity Nano Altıum. **Revision History** File: PIC16F18446_Curiosity_Nano_Revision_History.SchDoo

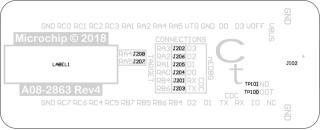


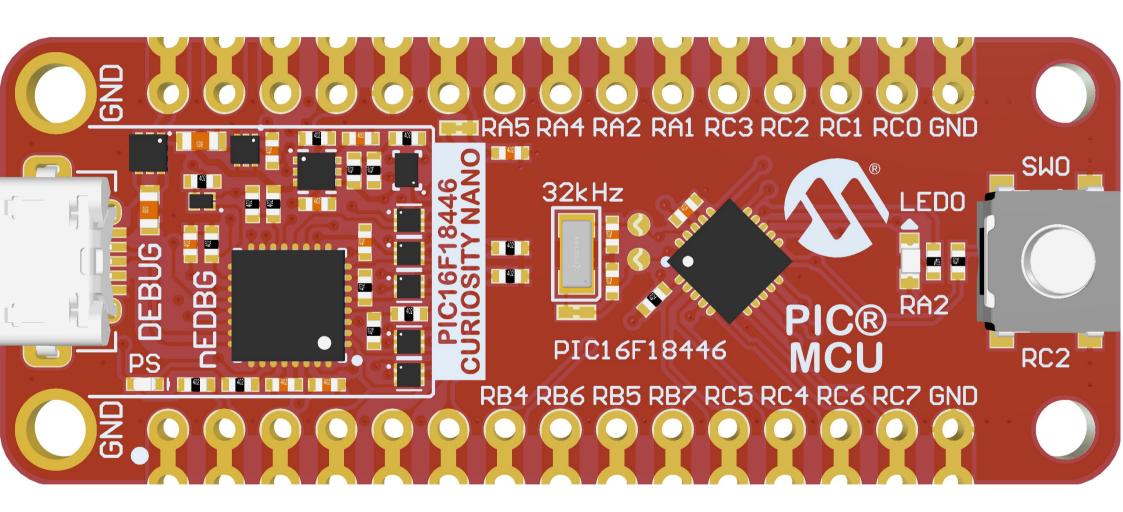
Connector Placement 2,54mm 5,08mm 00000000000000 00000000000000 2.54mm

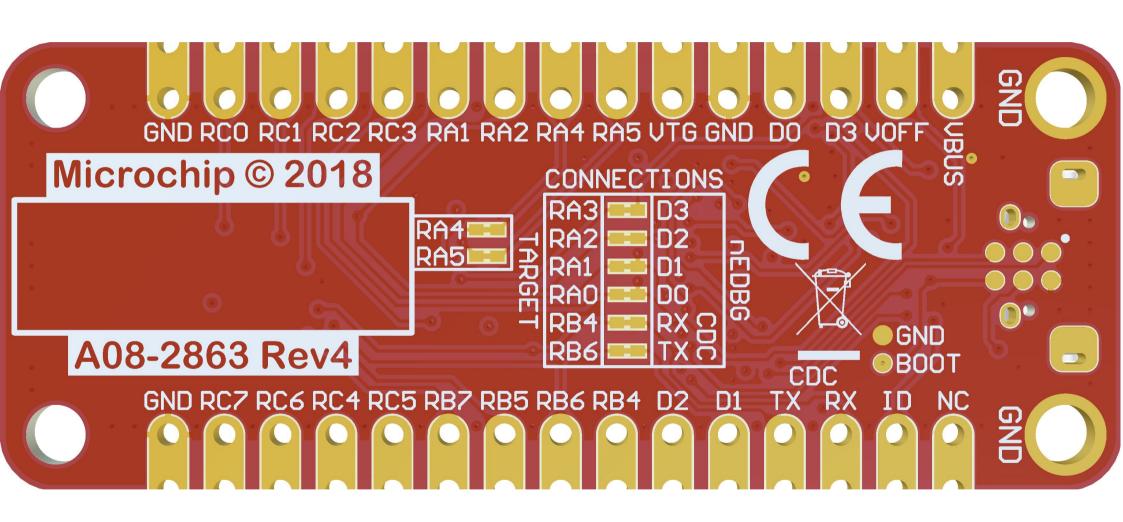
Test Point Placement

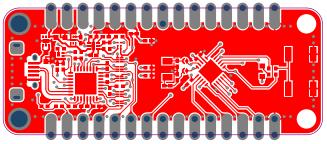


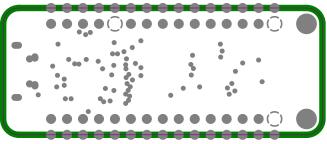


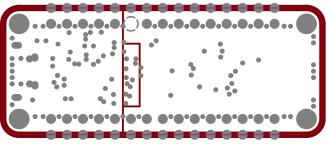


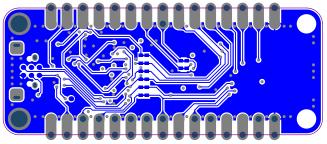












Component list

Bill of Materials Fitted For Variant [Default Assembly] of Project [PIC16F18446_Curiosity_Nano.PrjPcb] (No PCB Document Selected)

Source Data From: PIC16F18446_Curiosity_Nano.PrjPcb
Project: PIC16F18446_Curiosity_Nano.PrjPcb

Variant: Default Assembly

Report Date: 30.10.2018 12:19:32
Print Date: 30.10.2018 12:16:51



	Print Date:	30.10.2018	12:16:51			
Fitted	Designator	Quantity	Value	Manufacturer	MPN	Description
Fitted	C100, C105	2	4.7uF	WALSIN Technology Corporation	0603X475K100CT	Ceramic capacitor, SMD 0603, X5R, 10V, 10% (de31036)
Fitted	C101, C103, C205	3	2.2uF	Kemet, tdk	C0402C225M9PAC, C1005X5R1A225K	Ceramic capacitor, SMD 0402, X5R, 6.3V, +/-20%, CAP CER 2.2UF 10V 10% X5R 0402
Fitted	C102, C104, C107, C108, C200	5	100n	Kemet	C0402C104K4RACTU	Ceramic capacitor, SMD 0402, X7R, 16V, +/-10%
Fitted	C106	1	1u	Kemet	C0402C105K9PAC	Ceramic capacitor, SMD 0402, X5R, 6.3V, +/-10% (de26942)
Fitted	C203, C204	2	5pF	Murata	GRM1555C1H5R0CA01D	Ceramic capacitor, SMD 0402, NP0 (C0G), 50V, +/-0.25pF
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	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	LABEL1	1	Label PCBA	ACT Logimark AS	505462	PCBA identification label PPTop White Gloss
Fitted	PCB1	1	PIC16F18446 Curiosity Nano			PIC16F18446 Curiosity Nano PCB documentation
F., 1	POD 4 POO 4		PCB documentation			PROJECTION AND A PROPERTY AND A PROP
Fitted	PCBADOC1	1	A09-3120 PCBA files			PIC16F18446 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, R204, R205	9	47k	КОА	RK73H1ETTP4702F	Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R104	1	27k	YAGEO 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	R200	1	10k	YAGEO CORP	RC0402FR-0710KL	Thick film resistror, 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	PIC16F18446 Curiosity Nano test			Fixture test for PIC16F18446 Curiosity Nano
Fitted	TESTDOC1	1	Curiosity Nano Test Instructions			PIC16F18446 Curiosity Nano Test Instructions
Fitted	U100	1	SAMD21E18A-MUT	Microchip	ATSAMD21E18A-MUT	Atmel 32-bit RISC MCU 32pin
Fitted	U101	1	MIC5528-3.3YMT	Microchip	MIC5528-3.3Y MT-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	U109	1	MIC2098	Microchip	MIC2098-1YMT	900mA current limiting pow er distribution sw itch, active high
Fitted	U200	1	PIC16F18446-I/GZ	Microchip Technology Inc	PlC16F18446T-I/GZ	PIC 8-bit RISC MCU, UQFN-20, 4mm x 4mm
Fitted	XC200	1	32.768kHz	Kyocera Corporation	ST3215SB32768C0HPWBB	Kyocera ST3215SB32768C0HPWBB, 32.768kHz, 7pF, SMD tuning fork crystal
	-	54				
Approved			Notes			