

Altıum.

S3
PIC24FJ64GU205_Curiosity_Nano_Revision_History.SchDoc

Drawn By:
MIL
Engineer:
AH
Project Title
Designed w

 PIC24FJ64GU205 Curiosity Nano

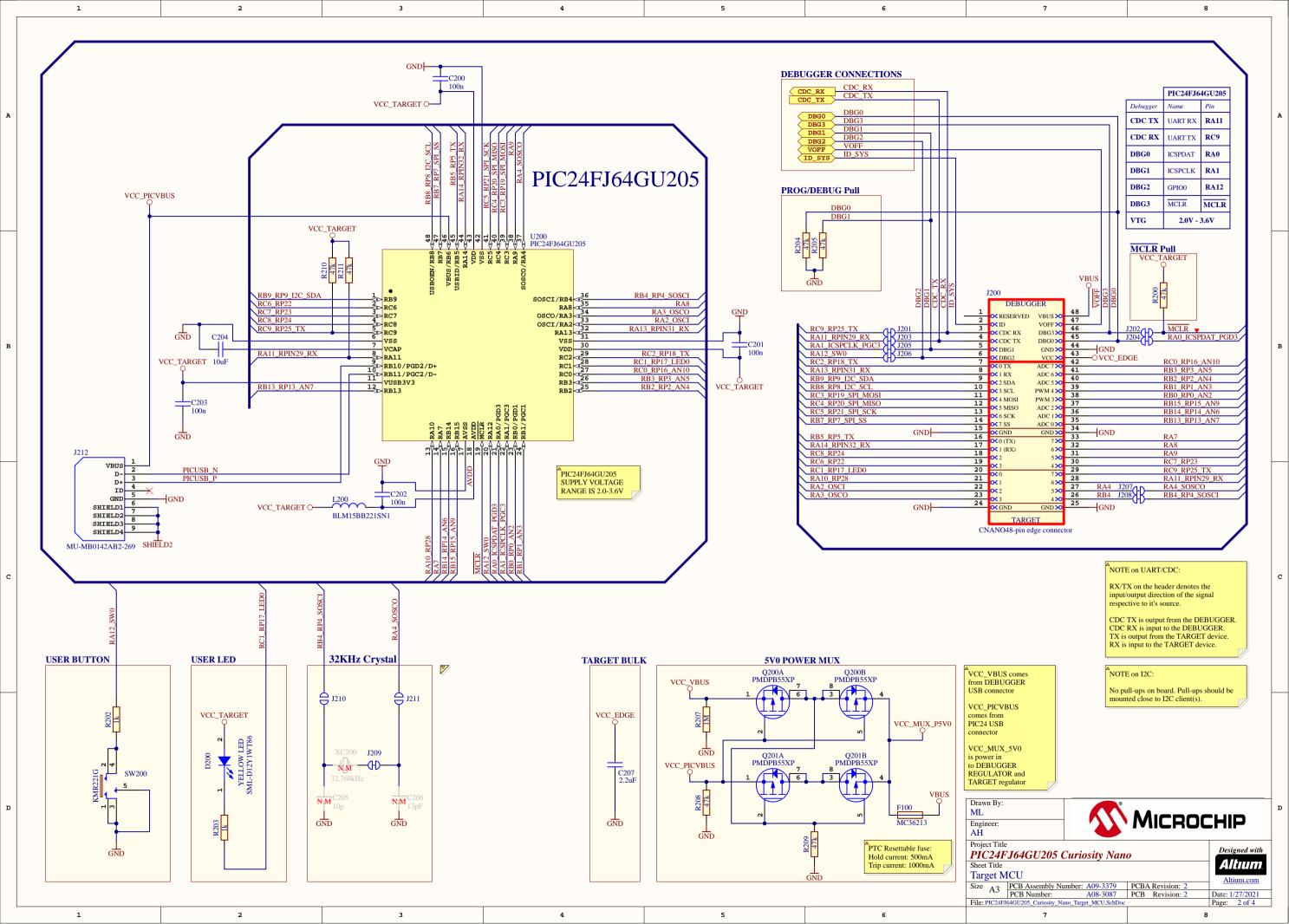
 Sheet Title

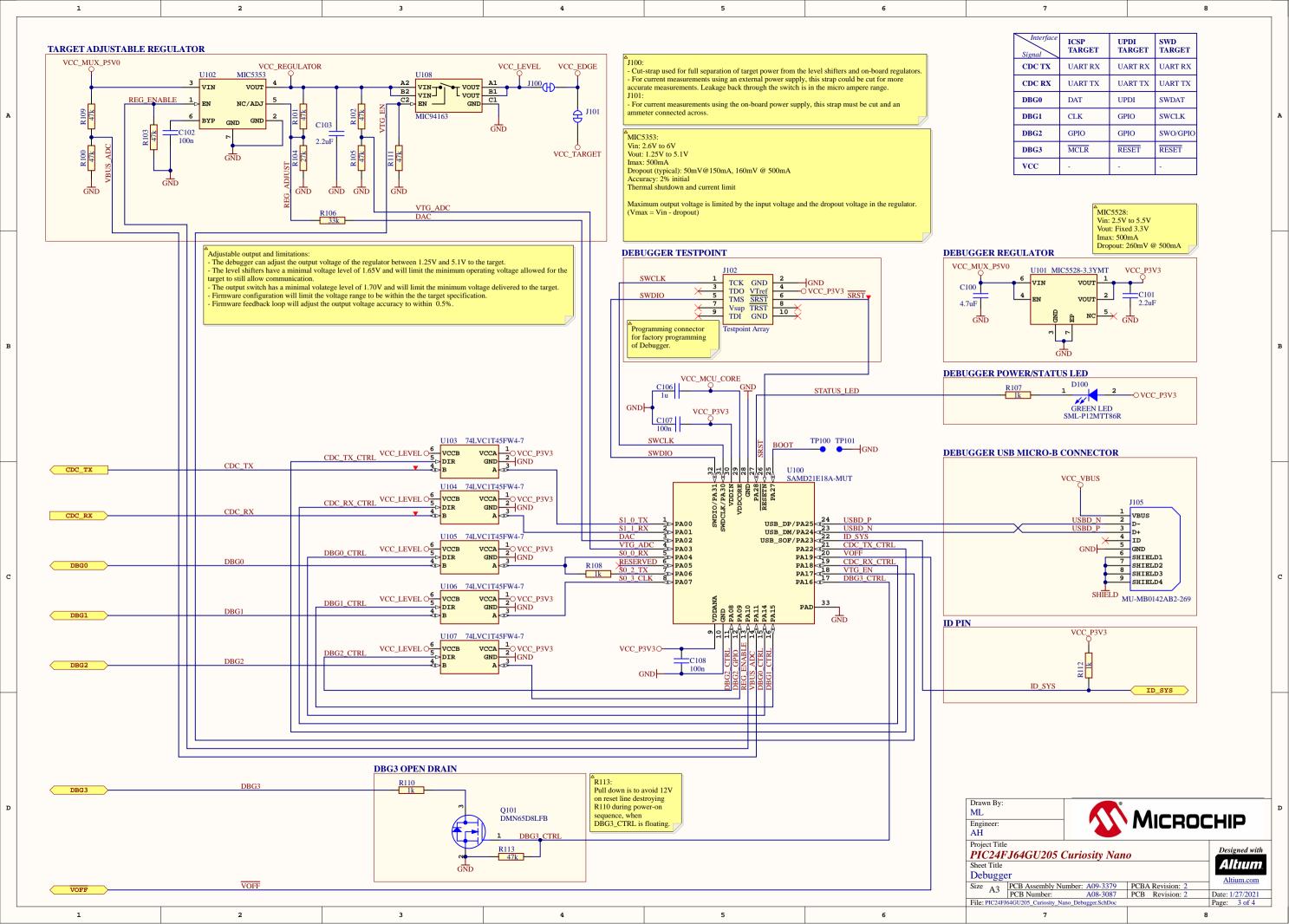
 Top Level

 Size PCB Assembly Number: A09-3379 PCB Acvision: 2 PCB Number: A08-3087 PCB Revision: 2

File: PIC24FJ64GU205_Curiosity_Nano_TopLevel.SchDoc

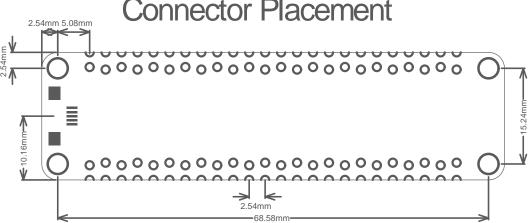
2 3 4 5 6 7



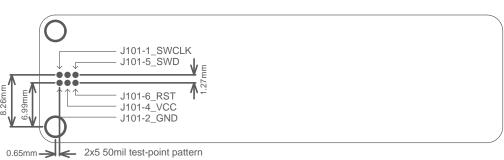


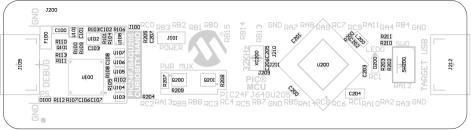
Revision History PCB Assembly Rev 1: Design Changes: PCB: PCB revision 1 **PCB Assembly Rev 2:** Design Changes: Added L200 to AVDD to filter out frequencies that affected ADC measurements stability. PCB: PCB revision 2 Drawn By: MICROCHIP Engineer: Project Title PIC24FJ64GU205 Curiosity Nano Altıum. Date: 1/27/2021 Page: 4 of 4



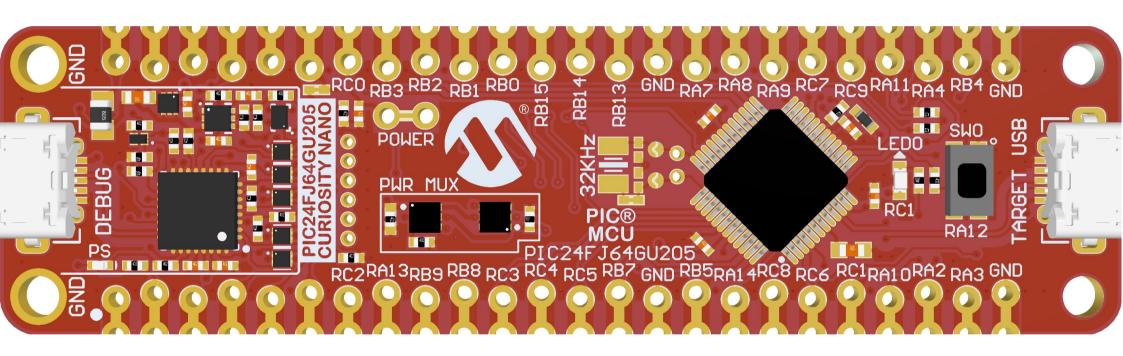


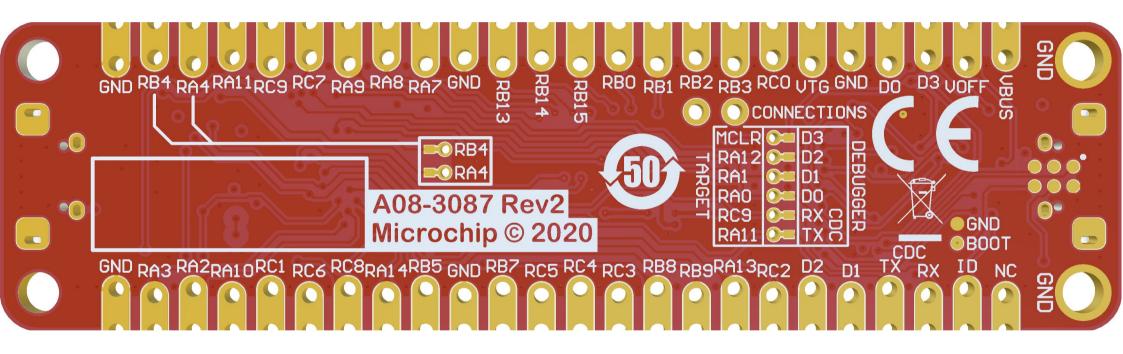
Test Point Placement

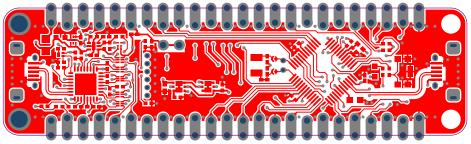


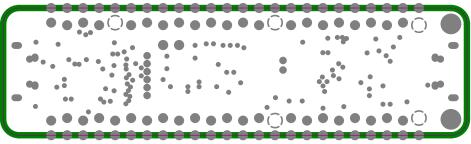


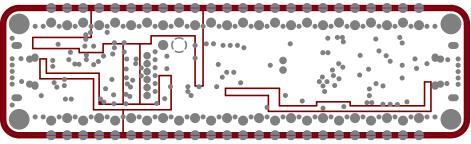


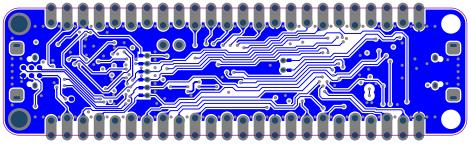












Component list

Bill of Materials Fitted for Variant [Default Assembly] of Project [PIC24FJ64GU205_Curiosity_Nano.PrjPcb] (No PCB Document Selected)

Source Data From: PIC24FJ64GU205_Curiosity_Nano.PrjPcb

> Project: PIC24FJ64GU205_Curiosity_Nano.PrjPcb

Variant: Default Assembly





	Report Date:	1/27/2021	8:40 AM			MICROCHIP
	Print Date:	1/27/2021	8:38:55 AM			7-11-01-10-01-111
Fitted	Designator	Quantity	Value	Manufacturer	MPN	Description
Fitted	C100	1	4.7uF	TDK	C1608X5R1A475K	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, C201, C202, C203	7	100n	Kemet	C0402C104K4RACTU	Ceramic capacitor, SMD 0402, X7R, 16V, +/-10%
Fitted	C103, C207	2	2.2uF	TDK	C1005X5R1A225K	CA P CER 2.2UF 10V 10% X5R 0402
Fitted	C106	1	1u	Kemet	C0402C105K9PAC	Ceramic capacitor, SMD 0402, X5R, 6.3V, +/-10% (de26942)
Fitted	C204	1	10uF	Murata	GRM188R61E106MA73D	Ceramic capacitor, SMD 0603, X5R, 25V, ±10 %
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, J212	2	MU-MB0142AB2-269	Allen Creations Corp.	MU-MB0142AB2-269	USB micro AB, Surface mount signals and DIP shield
Fitted	L200	1	BLM15BB221SN1	Murata	BLM15BB221SN1	SMD RF inductor 0402. Z=2200hm (@100MHz), Max R(dc)=0.800hm, Max current=200mA
Fitted	LABEL1	1	Label PCBA	ACT Logimark AS	505462	PCBA identification label PP Top White Gloss
Fitted	PCB1	1	PlC24FJ64GU205 Curiosity Nano PCB Documentation			PIC24FJ64GU205 Curiosity Nano PCB Documentation
Fitted	PCBA DOC1	1	PIC24FJ64GU205 Curiosity Nano PCBA Documentation			PIC24FJ64GU205 Curiosity Nano PCBA Documentation
Fitted	Q101	1	DMN65D8LFB	Diodes Incorporated	DMN65D8LFB-7	N-channel MOSFET, DFN1006-3 (SOT883), 60V, 330mA, 40hm
Fitted	Q200, Q201	2	PMDPB55XP	NXP	PMDPB55XP	Dual P-Channel MOSFET, -20V, RDS(ON) < 55 mOhm @-3.4A @-4.5V
Fitted	R100, R101, R102, R103, R105, R109, R111, R113, R200, R204, R205, R208, R209, R210, R211	15	47k	КОА	RK73H1ETTP4702F	Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R104	1	27k	Yageo	RC0402FR-0727KL	Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R106	1	33k	ASJ Holdings	CR10-3302-FK	Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R107, R108, R110, R112, R202, R203	6	1k	Yageo	RC0402FR071KL	Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R207	1	1M	Yageo	RC0402FR-071ML	Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	SW200	1	KMR221G	Cabcon A/S	L-KLS7-TS0304A-2-300-T	Microminiature Tact Sw itch for SMT
Fitted	TEST1	1	PIC24FJ64GU205 Curiosity Nano Test			Fixture test for PIC24FJ64GU205 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, 1.6x1.6mm MLF
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	MIC94163YCS-TR	Loadswitch, Rds(on) = 14.5mohm, 1.0mm x 1.5mm WLCSP, reverse blocking
Fitted	U200	1	PIC24FJ64GU205	Microchip	PIC24FJ64GU205-I/PT	16-Bit MCU 32MHz PIC24FJ64GU205-I/PT TQFP-48 7mm x 7mm x 1mm
Not Fitted	C205	0	10p	AVX	04025A100JAT2A	Ceramic capacitor, SMD 0402, NP0, 50V, +/-5%
Not Fitted	C206	0	13pF	Murata	GRM1555C1H130JA01D	Ceramic capacitor, SMD 0402, NP0, 50V, +/-5%
Not Fitted	XC200	0	32.768kHz	Abracon	ABS07-32.768kHz-7-T	Crystal, 32.768kHz, CL=7.0pF, ESR=70kOhm, SMD LxW=3.2 x 1.5mm, 20ppm
		63				
Approv	ed		Notes			