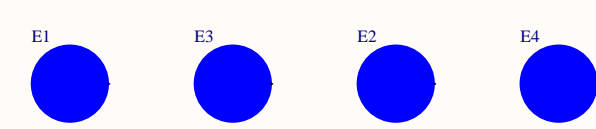
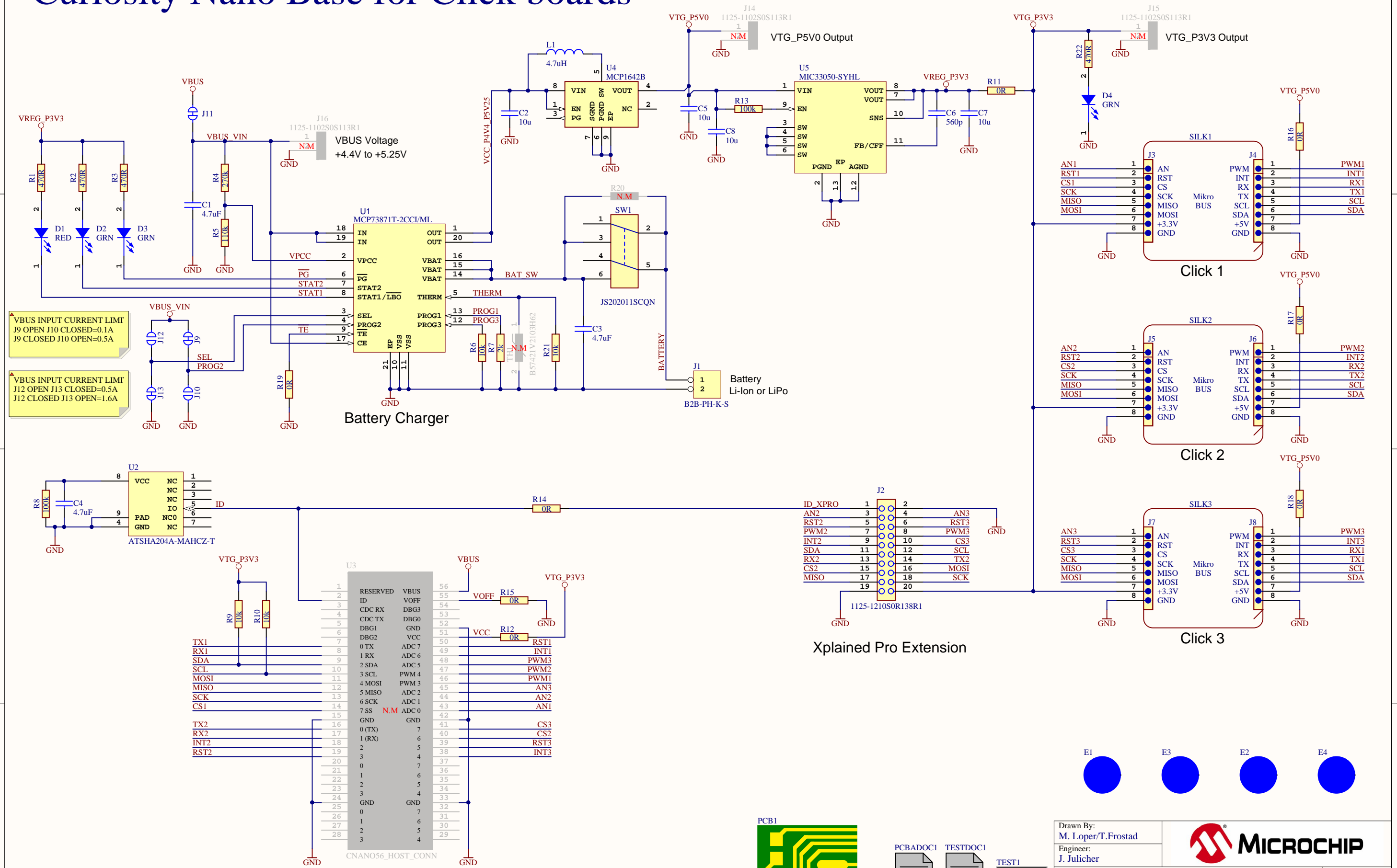


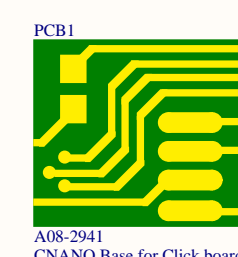
Curiosity Nano Base for Click boards™



LABEL1

Product number/revision
Serial number

Label PCB A



PCBDOC1 TESTDOC1 TEST1

A12-1357 A12-1360 A11-0432

Drawn By: M. Loper/T.Frostad
Engineer: J. Julicher

Project Title: **Curiosity Nano Base for Click boards™**

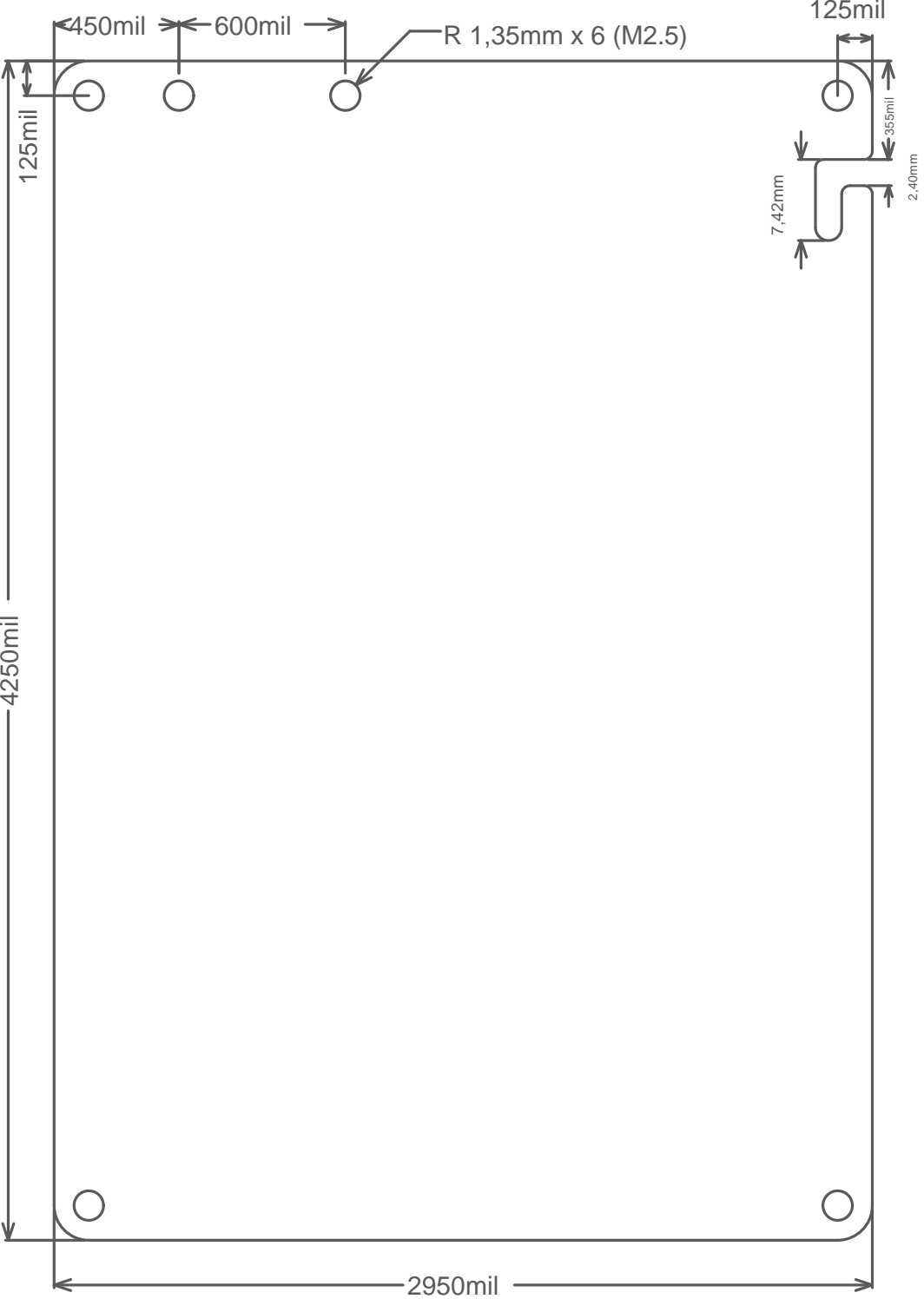
Sheet Title: **Curiosity Nano Application Board**

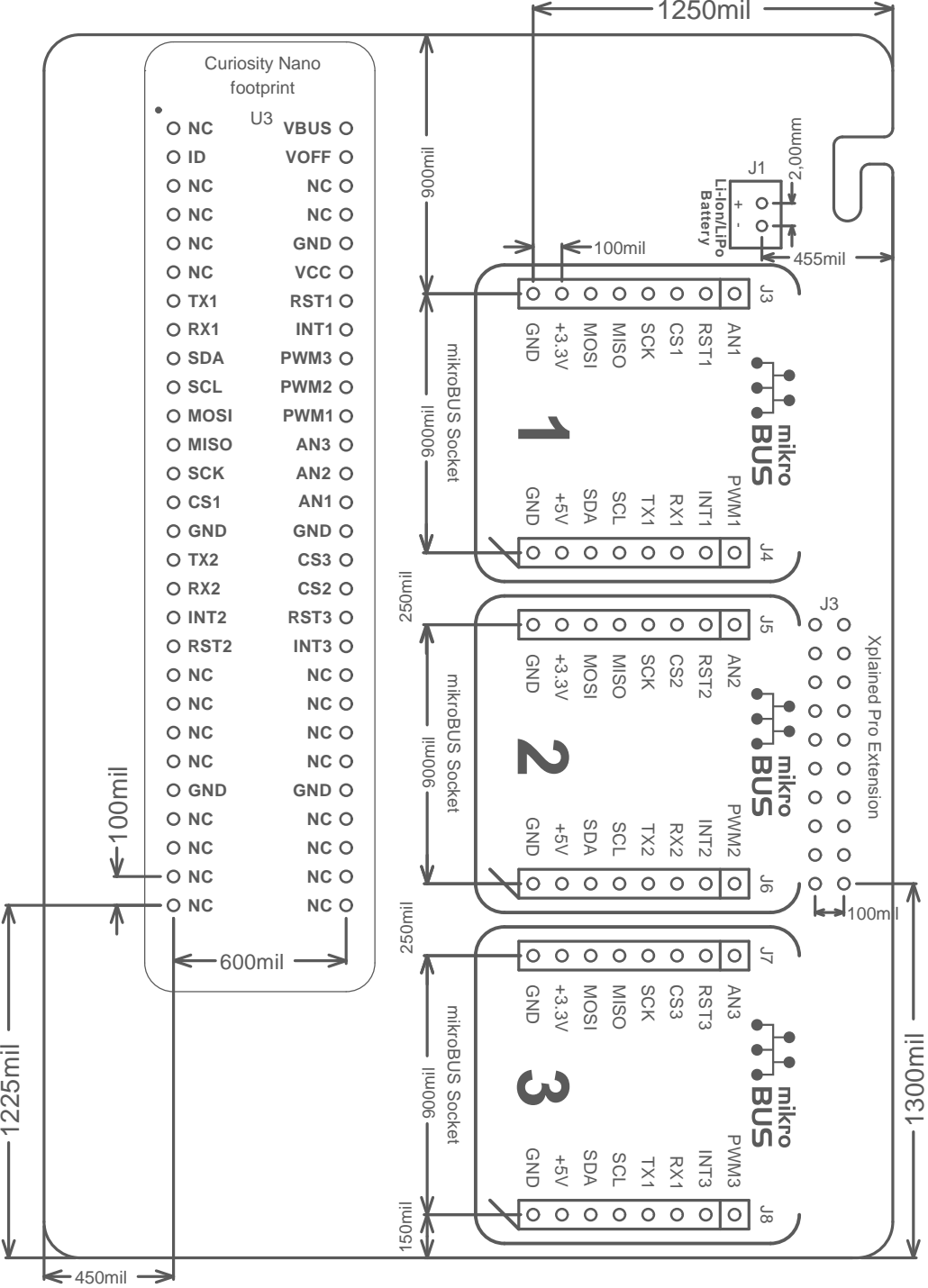
Size A3 PCB Assembly Number: A09-3206 PCB Revision: 3
PCB Number: A08-2941 PCB Revision: 3

File: Curiosity_Nano_Base_for_Click_boards.SchDoc

Page: 1 of 1

Designed with **Altium**
Altium.com





GND NC ID NC NC NC NC NC TX1 RX1 SDA SCL MOSI MISO SCK CS1 GND TX2 RX2 INT2 RST2 NC NC NC NC NC NC NC

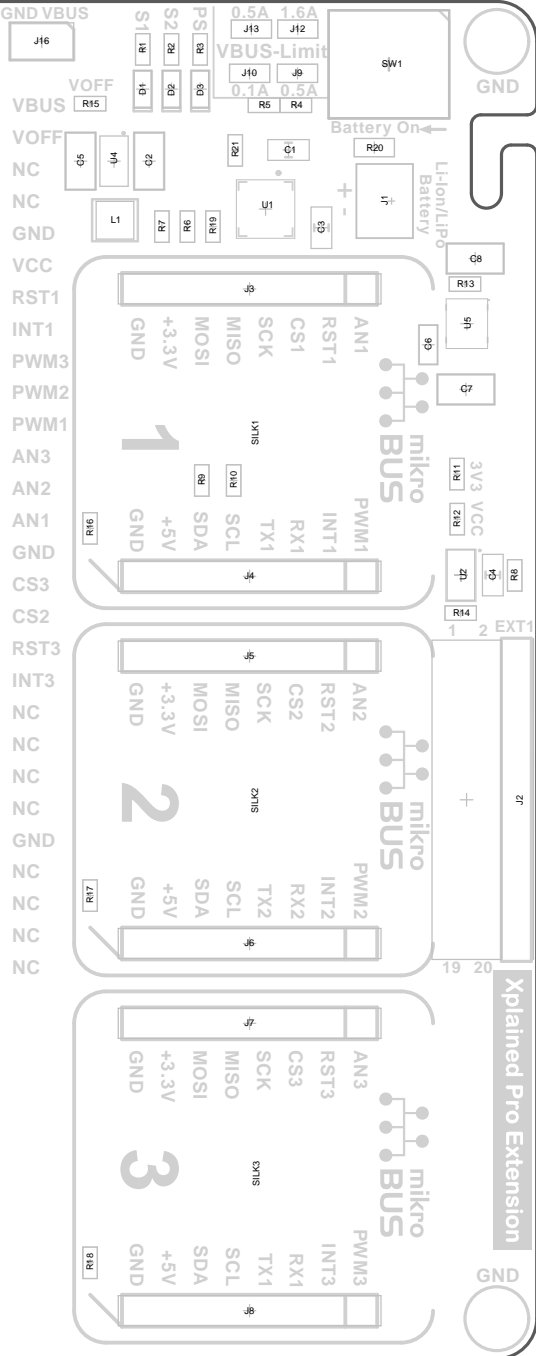
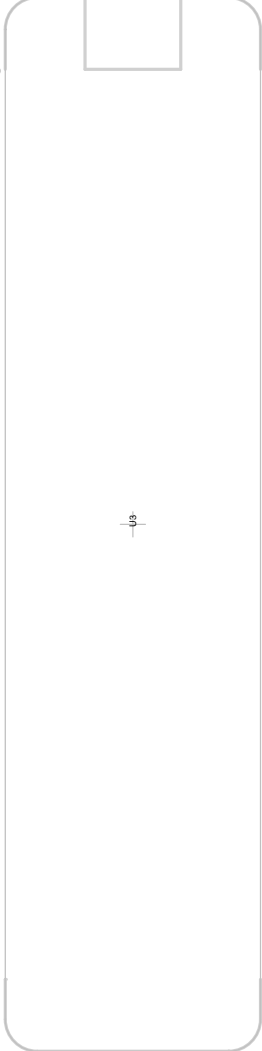
GND



MICROCHIP

Curiosity Nano Adapter

GND 3V3 POWER GND 5V0



Explained Pro Extension

GND

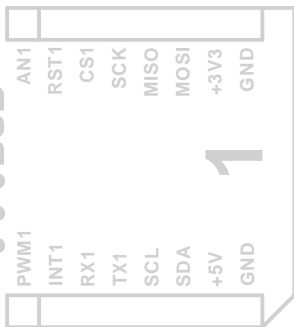
E1

+

-

Li-Ion/LiPo
Battery

mikro
BUS



2

1

mikro
BUS



20

19

mikro
BUS



GND

VBUS GND

VBUS

JH1

VOFF

NC

NC

GND

VCC

RST1

INT1

PWM3

PWM2

PWM1

AN3

AN2

AN1

GND

CS3

CS2

RST3

INT3

NC

NC

NC

NC

NC

GND

NC

NC

NC

NC

GND

E2

GND



GND

NC

ID

NC

NC

NC

NC

TX1

RX1

SDA

SCL

MOSI

MISO

SCK

CS1

GND

TX2

RX2

INT2

RST2

NC

NC

NC

NC

NC

GND

NC

NC

NC

NC

TH1

XPLAINED PRO
EXTENSION HEADER

GND	ID
AN3	AN2
RST3	RST2
PWM3	PWM2
CS3	INT2
SCL	SDA
TX2	RX2
MOSI	CS2
SCK	MISO
3V3	GND

ATTACH OPTIONAL
BATTERY PACK IN
THIS AREA.

PCBA LABEL

LABEL1

A08-2941 Rev3

Microchip © 2018

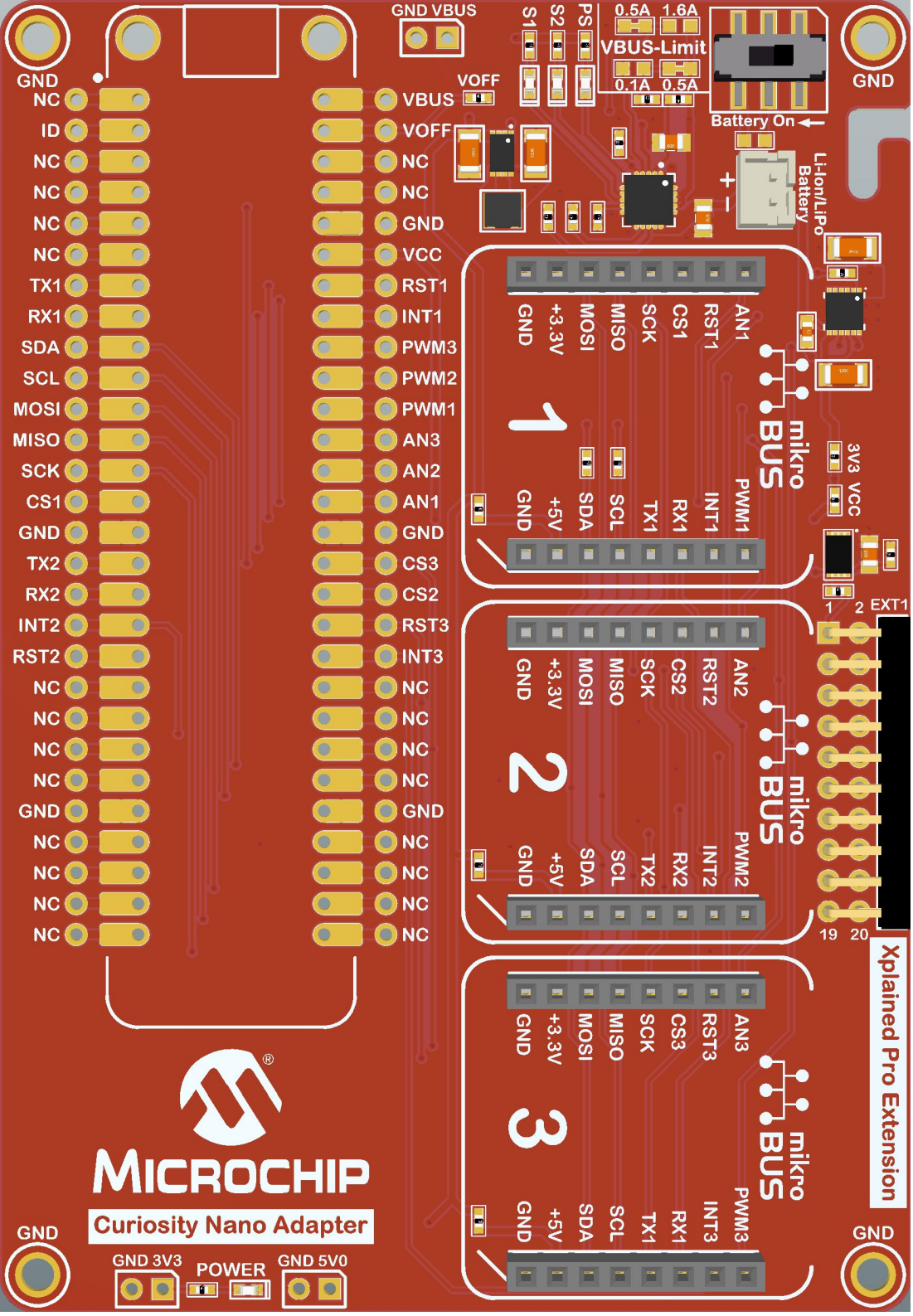
5V0 GND

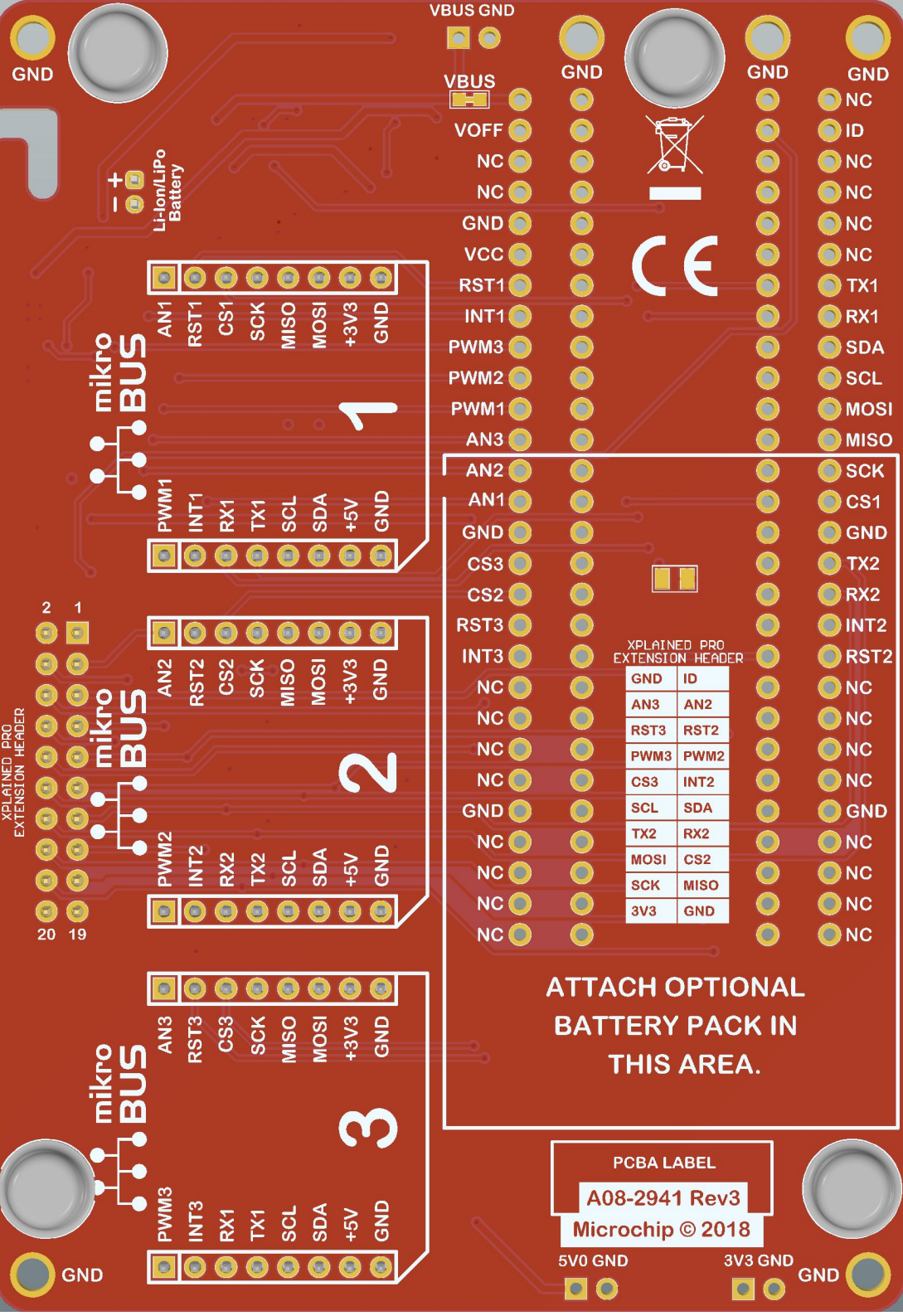
3V3 GND

GND

E3

E4





GND

Li-Ion/LiPo Battery

mikro BUS

AN1
RST1
CS1
SCK
MISO
MOSI
+3V3
GND

1

PWM1
INT1
RX1
TX1
SCL
SDA
+5V
GND

XPLAINED PRO EXTENSION HEADER

2

20

mikro BUS

AN2
RST2
CS2
SCK
MISO
MOSI
+3V3
GND

2

PWM2
INT2
RX2
TX2
SCL
SDA
+5V
GND

mikro BUS

AN3
RST3
CS3
SCK
MISO
MOSI
+3V3
GND

3

PWM3
INT3
RX1
TX1
SCL
SDA
+5V
GND

GND

VBUS GND

VBUS
VOFF
NC
NC
GND
VCC
RST1
INT1
PWM3
PWM2
PWM1
AN3
AN2
AN1
GND
CS3
CS2
RST3
INT3
NC
NC
NC
NC
GND
NC
NC
NC
NC

GND

GND

GND

NC
ID
NC
NC
NC
NC
TX1
RX1
SDA
SCL
MOSI
MISO

SCK
CS1
GND
TX2
RX2
INT2
RST2
NC
NC
NC
NC
GND
NC
NC
NC
NC

XPLAINED PRO EXTENSION HEADER

GND	ID
AN3	AN2
RST3	RST2
PWM3	PWM2
CS3	INT2
SCL	SDA
TX2	RX2
MOSI	CS2
SCK	MISO
3V3	GND

ATTACH OPTIONAL BATTERY PACK IN THIS AREA.

PCBA LABEL

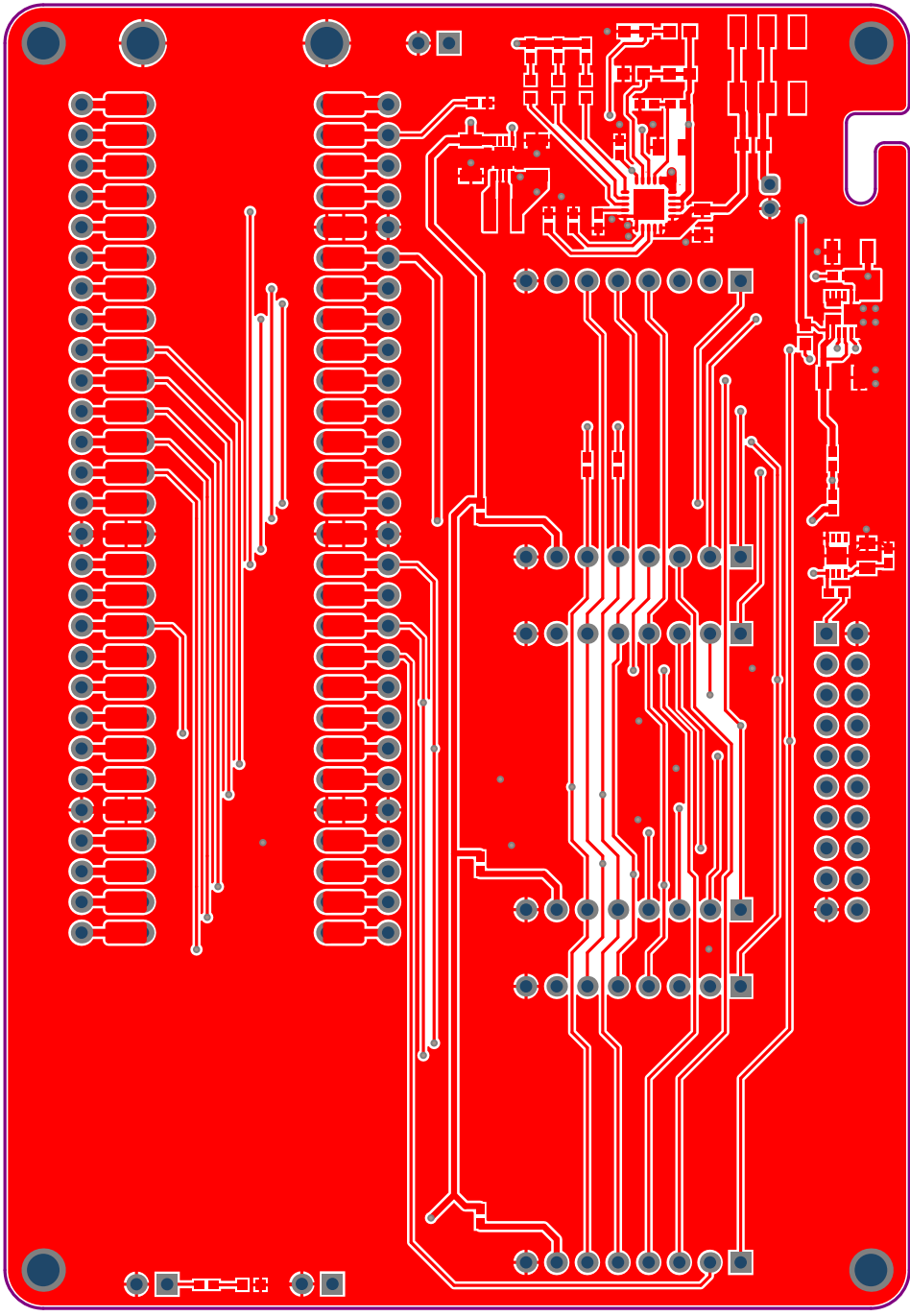
A08-2941 Rev3

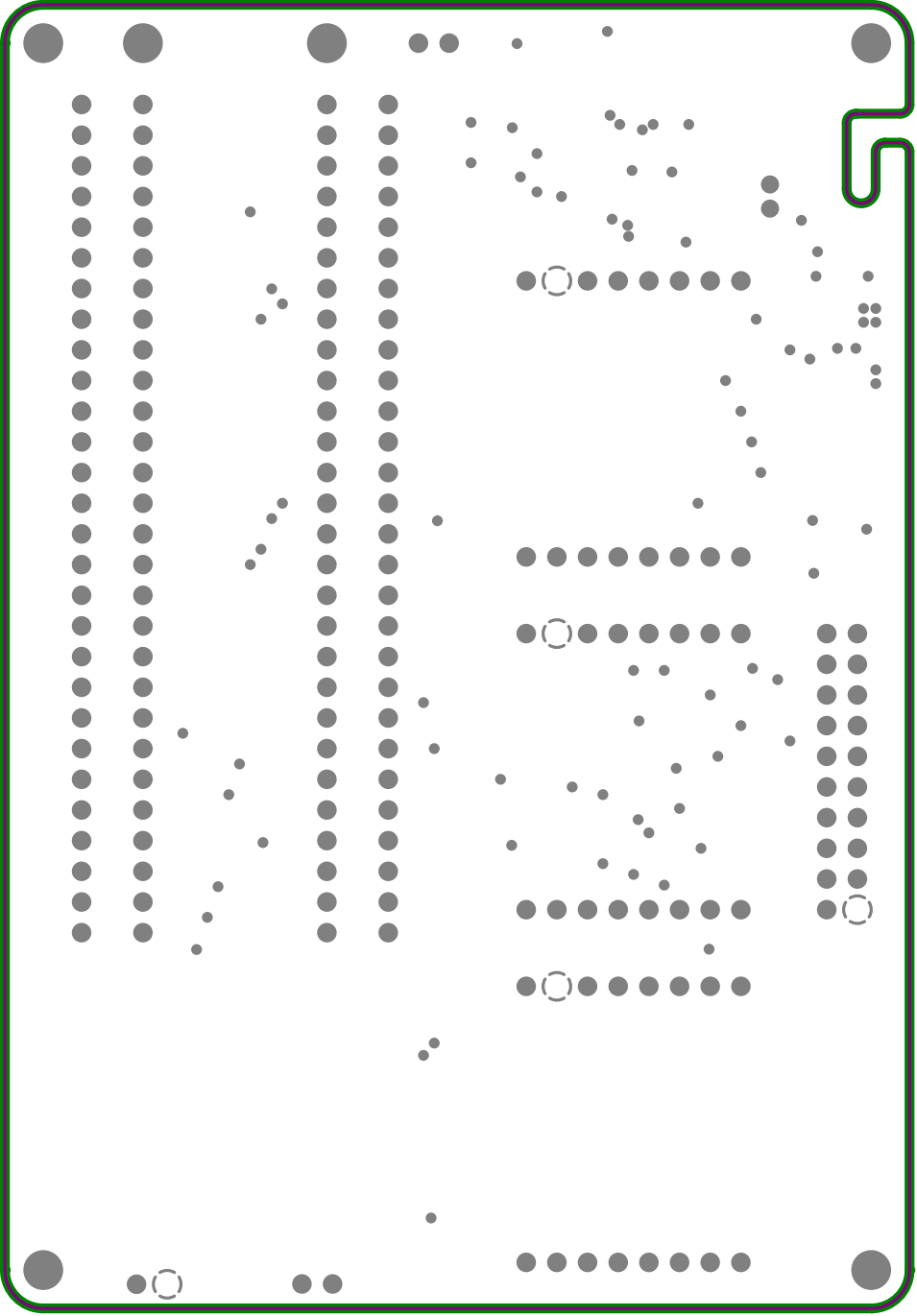
Microchip © 2018

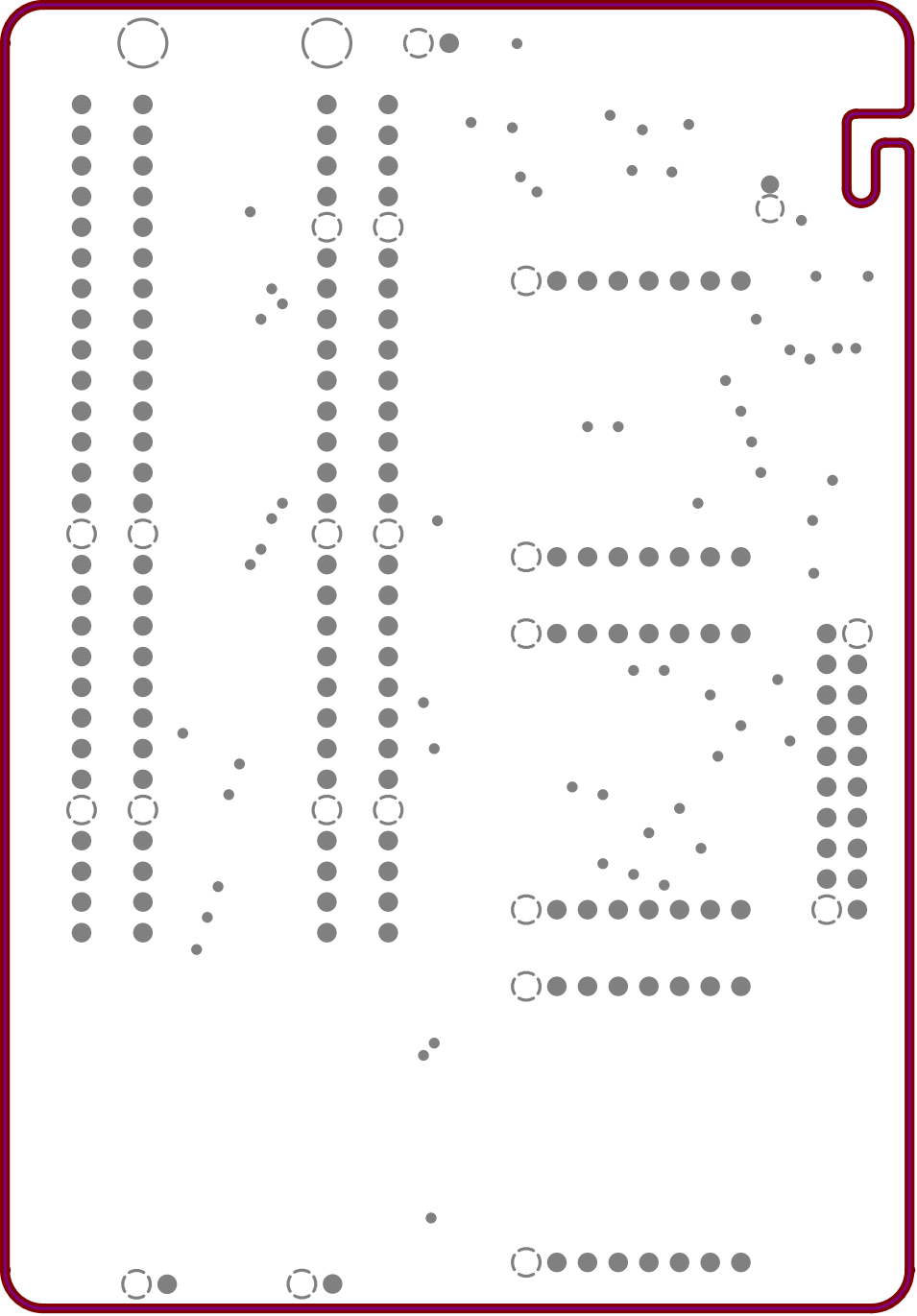
5V0 GND

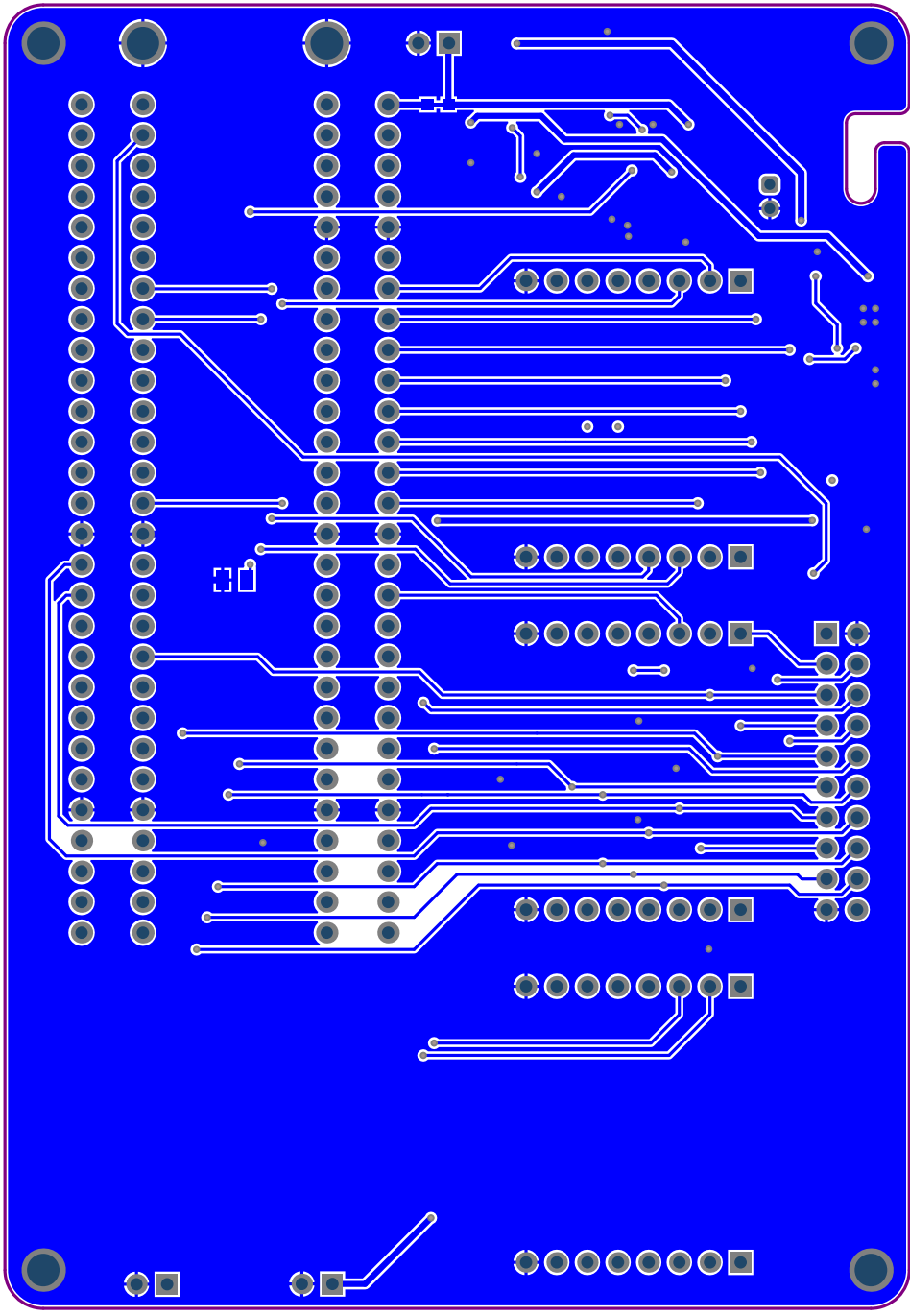
3V3 GND

GND









Component list

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

Source Data From: Curiosity_Nano_Base_for_Click_boards.PrjPcb
 Project: Curiosity_Nano_Base_for_Click_boards.PrjPcb
 Variant: Default Assembly



Report Date: 27.02.2019 15:40
 Print Date: 27.02.2019 3:39:12 PM

Fitted	Designator	Quantity	Value	Manufacturer	MPN	Description
Fitted	C1, C3, C4	3	4.7uF	YAGEO CORP	CC0805KKX7R7BB475	Ceramic capacitor, SMD 0805, X7R, 16V, 10%,
Fitted	C2, C5, C7, C8	4	10u	Murata	GRM31CR71C106KA12L	Ceramic capacitor, SMD 1206, X7R, 16V, $\pm 10\%$
Fitted	C6	1	560p			Ceramic capacitor, SMD 0603, X7R, 50V, $\pm 10\%$
Fitted	D1	1	RED LED	ROHM	SML-D12U1WT86	LED, SMD 0603, Red, Wave length=620nm, 63mcd @ (20mA, 2.2Vf) rohm
Fitted	D2, D3, D4	3	SML-310MTT86N	ROHM	SML-310MTT86N	LED, Green, 570nm, SMD 0603
Fitted	E1, E2, E3, E4	4	SJ-5076	3M	SJ-5076	2.8mm adhesive feet,diam 8.0mm
Fitted	J1	1	B2B-PH-K-S	J.S.T. Mfg. Co. Ltd.	B2B-PH-K-S	Pin Header 1x2, 2mm THM, top entry, 100V AC/DC, 2A AC/DC (AWG #24)
Fitted	J2	1	1125-1210S0R138R1	WCON HARDWARE ELECTRONICS CO., LTD	1125-1210S0R138R1	Pin header, 2x10, Right Angle, 2.54mm, THM, Pin In Paste
Fitted	J3, J4, J5, J6, J7, J8	6	2185-108SS0CYNP1	WCON HARDWARE ELECTRONICS CO., LTD	2185-108SS0CYNP1	1x8 receptacle pin header, 2.54mm pitch THM, PIP
Fitted	L1	1	4.7uH	Taiyo Yuden	NR3015T4R7M	4.7uH, SMT, Power inductor, 20%, Isat = 1.04A, 3mm x 3mm x 1.5mm
Fitted	LABEL1	1	Label PCBA	ACT Logimark AS	505462	PCBA identification label PP Top White Gloss
Fitted	PCB1	1	CNANO Base for Click			CNANO Adapter kit PCB documentation
Fitted	PCBADOC1	1	A09-3206 PCB A Files			Curiosity Nano Adapter PCB A documentation
Fitted	R1, R2, R3, R22	4	470R	ASJ	CR10-4700-FK	Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R4	1	270k			Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R5	1	110k			Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R6, R9, R10, R21	4	10k	vishay	CRCW040210K0FKED	Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R7	1	2k			Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R8, R13	2	100k	ASJ	CR10-1003-FK	Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R11, R12, R14, R15, R16, R17,	8	0R	(n/a)	RMCF0402ZT0R00	RES 0.0 OHM 1/16W 0402 SMD
Fitted	SW1	1	JS202011SCQN	C&K Components	JS202011SCQN	Slide Switch, C&K, 2 Pos 2 Pol, SMD
Fitted	TEST1	1	Curiosity Nano Adapter test			Fixture test for Curiosity Nano Adapter
Fitted	TESTDOC1	1	CNANO Adapter test			Test instructions for the curiosity nano Adapter
Fitted	U1	1	MCP73871	Microchip Technology Inc	MCP73871T-2CCI/ML	Load Sharing and Li-Ion/Li-Polymer Battery Charge Management Controller
Fitted	U2	1	ATSHA204A SWI UDFN8	ATMEL	ATSHA204A-MAHCZ-T	ATSHA204A with 1-wire interface and UDFN8 package
Fitted	U4	1	MCP1642B	Microchip	MCP1642BT-50I/MC	1 MHz Switching Boost Regulator 5V 800mA
Fitted	U5	1	MIC33050-SYHL	Microchip Technology Inc	MIC33050-SYHL-TR	3.3V Fixed, 4MHz, 600mA, Buck regulator with internal inductor with HyperLight Load
Not	J14, J15, J16	0	1125-1102S0S113R1	WCON HARDWARE ELECTRONICS CO., LTD	1125-1102S0S113R1	1x2 pin header, 2.54mm pitch, Pin-in-Paste THM
Not	TH1	0	NTC- B57421V2103H62	EPCOS	B57421V2103H62	THERMISTOR NTC 10K OHM 3% 0805

Approved

Notes