

Revision History **PCB Assembly Rev 1:** Design Changes: PCB revision 1 **PCB Assembly Rev 2: PCB Assembly Rev 6:** Design Changes: Design Changes: Redesigned power supply for VTG\_P5V0/VTG\_P3V3. Change in capacitors PCB revision 2 PCB revision 4 **PCB Assembly Rev 3: PCB Assembly Rev 7:** Design Changes: Added jumper on VBUS. Added pinheaders for VBUS, VTG\_P5V0, and VTG\_P3V3. Added power LED to Adjusted feedback resistors of 5V regulator for slightly VTG\_P3V3. Added jumpers to enable high-current (1.6A) lower output voltage (4.85V). Ferrite bead L3 replaced with on power MUX. Default is still 500mA. 0-Ohm resistor to for better noise performance. PCB revision 4 PCB revision 3 **PCB Assembly Rev 4:** Design Changes: Mounted two 28 pin receptacles. PCB revision 3 **PCB Assembly Rev 5:** Design Changes: Redesign of VTG\_P5V0 power supply to get rid of noise problems. Set high-current (1.6A) mode as default. Renamed kit to "Curiosity Nano Base for Clicks". Drawn By **MICROCHIP** T.Frostad Engineer: PCB revision 4 T.Frostad Curiosity Nano Base for Click boards **Revision History** 
 Size
 A3
 PCB Assembly Number:
 A09-3206
 PCBA Revision:
 7

 PCB Number:
 A08-2941
 PCB Revision:
 4

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Date: 2021-07-05

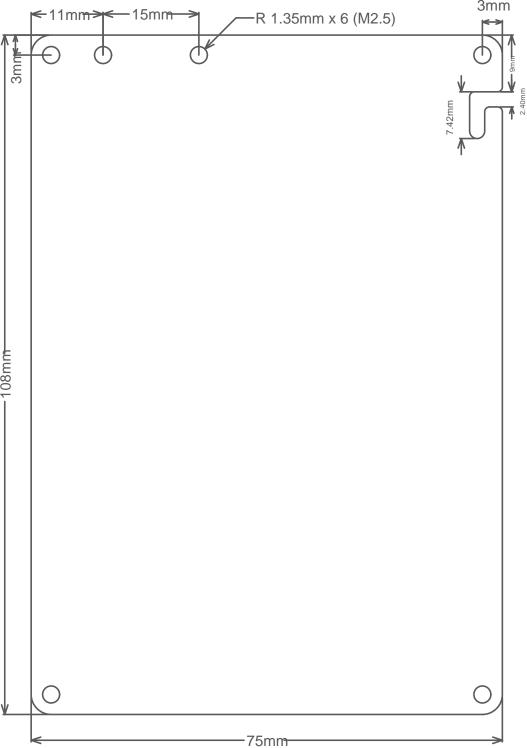
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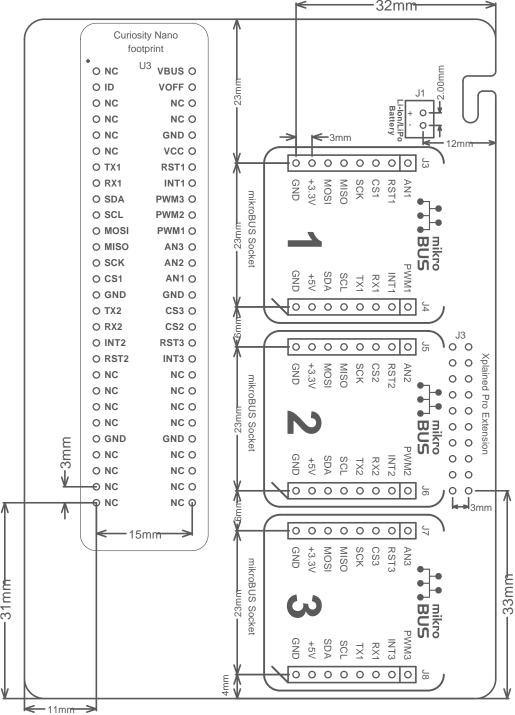
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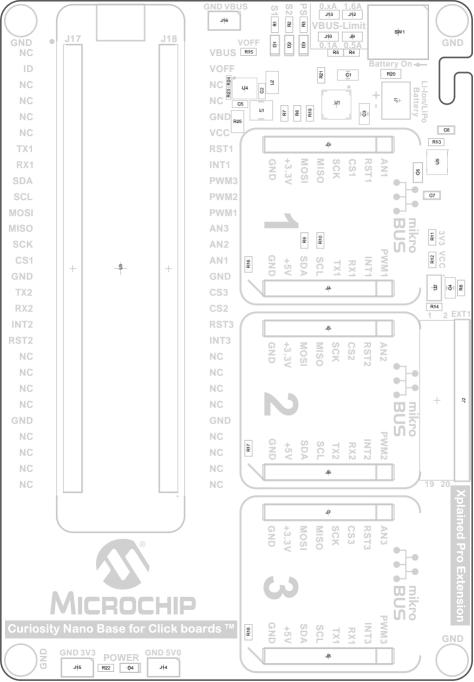
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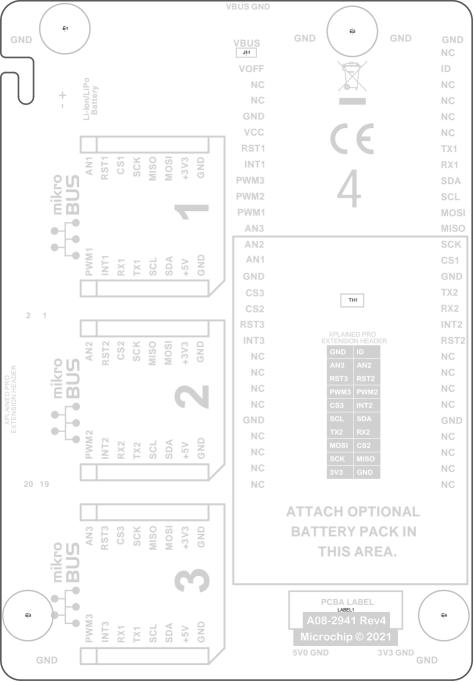
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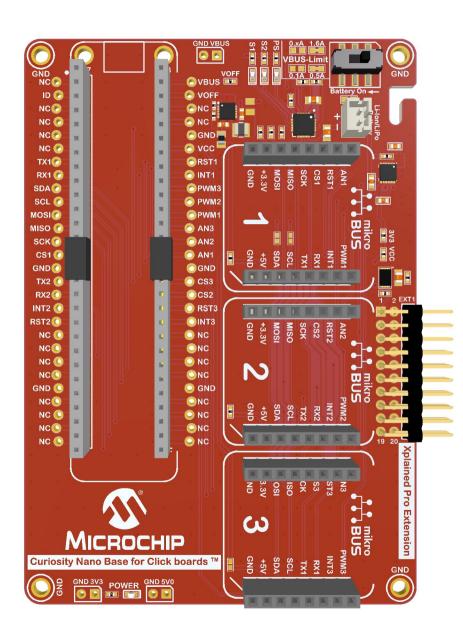
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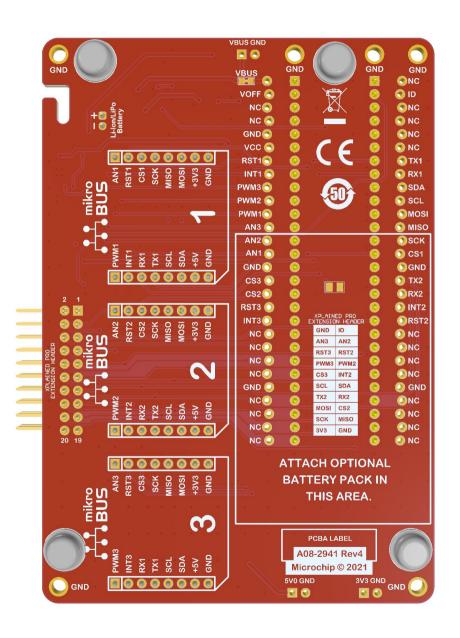


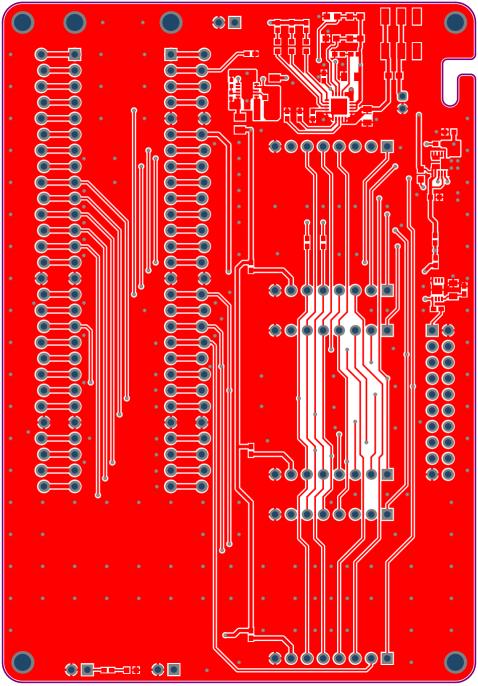


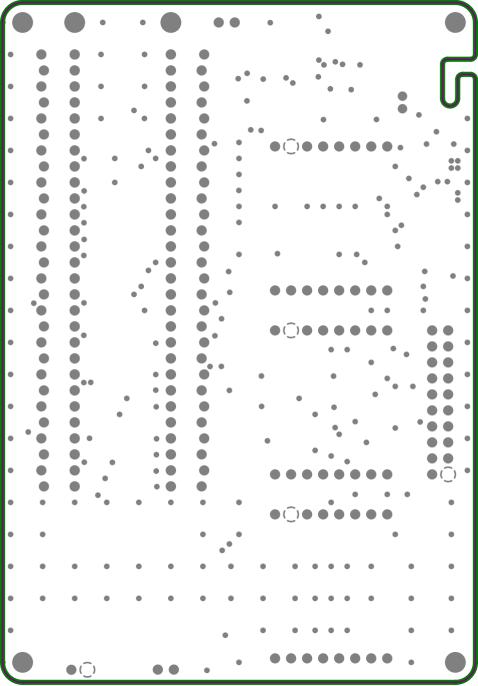


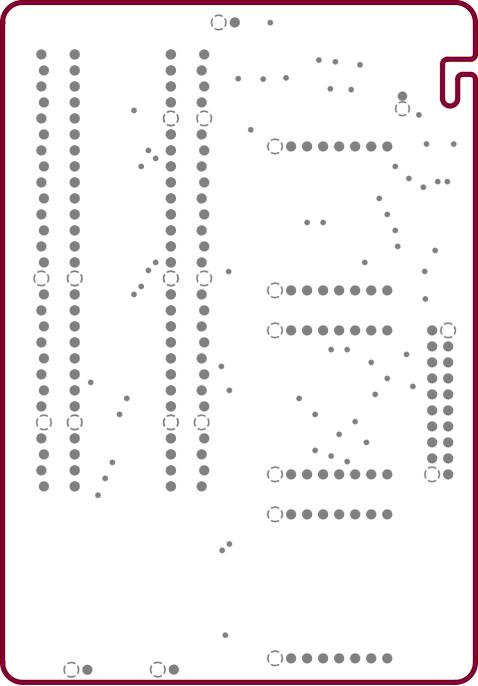


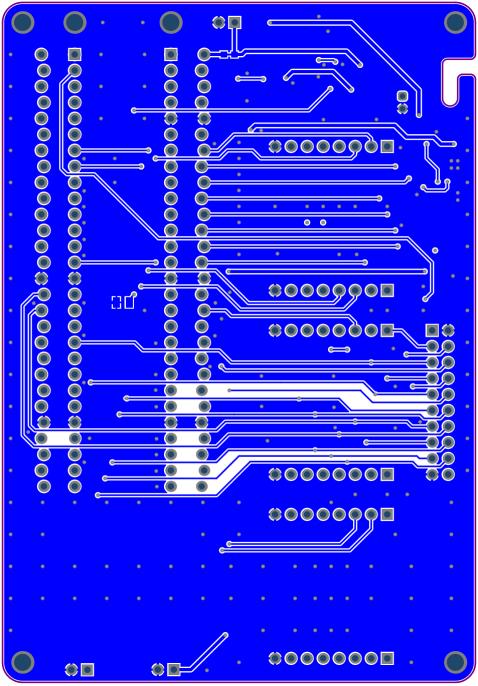












## **Component list**

Bill of Materials Fitted for Variant [Default Assembly] of Project [Curiosity\_Nano\_Base\_for\_Clicks.PrjPcb] (No PCB Document Selected)

Source Data From: Curiosity\_Nano\_Base\_for\_Clicks.PrjPcb

Project: Curiosity\_Nano\_Base\_for\_Clicks.PrjPcb

Variant: Default Assembly

Report Date: 2021-07-05 17:08

Print Date: 2021-07-05 17:08:42



	Print Date:	2021-07-05	17:08:42			
Fitted	Designator	Quantity	Value	Manufacturer	MPN	Description
Fitted	C1, C3, C4	3	4.7uF	Yageo	CC0805KKX7R7BB475	Ceramic capacitor, SMD 0805, X7R, 16V, 10%,
Fitted	C2, C5, C7, C8	4	10uF/16V	Taiyo Yuden	EMK107BBJ106MA-T	Ceramic capacitor, SMD 0603, X5R, 16V, 10UF ± 20% (High Density)
Fitted	C6	1	560p			Ceramic capacitor, SMD 0603, X7R, 50V, ±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	1125-1210S0R138CR01	Pin header, 2x10, Right Angle, 2.54mm, THM, Pin In Paste
Fitted	J3, J4, J5, J6, J7, J8	6	2185-108SS0CYNP1	WCON	2185-108SS0CYNP1	1x8 receptacle pin header, 2.54mm pitch THM, PIP
Fitted	J17, J18	2	2185-128SS0CUNR1	WCON	2185-128SS0CUNR1	1X28 Receptacle Pin Socket 2.54mm pitch THM with pick and place TAB
Fitted	L1	1	2.2uH	Murata	DFE252012P-2R2M=P2	2.2uH, 2.6A shielded SMD pow er inductor
Fitted	L2	1	220ohm@100MHz	Murata	BLM21PG221SN1D	FerriteBead,220ohm@100MHz,2000mA,0.045ohm
Fitted	LABEL1	1	Label PCBA	ACT Logimark AS	505462	PCBA identification label PPTop White Gloss
Fitted	PCB1	1	CNANO-BASE4CLICK kit			CNANO Adapter kit PCB documentation
			PCB documentation			
Fitted	PCBADOC1	1	A09-3206 PCBA Files			Curiosity Nano Adapter PCBA documentation
Fitted	R1, R2, R3, R22	4	470R	ASJ Holdings	CR10-4700-FK	Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R4	1	270k	Yageo	RC0402FR07270KL	Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R5	1	110k	Yageo	RC0402FR-07110KL	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	Yageo	RC0402FR072KL	Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R8, R13	2	100k	Yageo	RC0402FR-07100KP	Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R11, R12, R14, R15, R16, R17, R18, R19	8	0R	Stackpole Electronics Inc	RMCF0402ZT0R00	RES 0.0 OHM 1/16W 0402 SMD
Fitted	R23	1	1.2M	Yageo	RC0402FR-071M2L	Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R24	1	300k	Yageo	RC0402FR-07300KL	Thick film resistror, SMD 0402, 1/16W, 1%
Fitted	R25	1	0R	Yageo	RC0805FR-070RL	Chip Resistor 0R,0805,1% 1/8W
Fitted	SW1	1	JS202011SCQN	C&K Components	JS202011SCQN	Slide Switch, C&K, 2 Pos 2 Pol, SMD
Fitted	TEST1	1	Curiosity Nano BASE4CLICK			Fixture test for Curiosity Nano Adapter
			test			
Fitted	TESTDOC1	1	CNANO-BASE4CLICK test			Test instructions for the curiosity nano Adapter
Etter	1.14	4	instructions	Managhia	MODZODZAT OCCIANI	Land Charita and Li Ira/li Delawar Deltay Charac Managarat C
Fitted	U1	1	MCP73871	Microchip	MCP73871T-2CCI/ML	Load Sharing and Li-Ion/Li-Polymer Battery Charge Management Controller
Fitted	U2	1	ATSHA204A SWI UDFN8	Microchip	ATSHA204A-MAHCZ-T	ATSHA204A with 1-wire interface and UDFN8 package
Fitted	U4	1	MCP16417	Microchip	MCP16417T-I/MN	Low Iq boost converter with programmable low battery, UVLO, and automatic input-to-output bypass operation
Fitted	U5	1	MIC33050-SYHL	Microchip	MIC33050-SYHL-TR	3.3V Fixed, 4MHz, 600mA, Buck regulator with internal inductor with HyperLight Load
Not	J14, J15, J16	0	1125-1102S0S113R1	WCON	1125-1102S0S113R1	1x2 pin header, 2.54mm pitch, Pin-in-Paste THM
Fitted						
Not	TH1	0	NTC- B57421V2103H62	EPCOS	B57421V2103H62	THERMISTOR NTC 10K OHM 3% 0805
Fitted		62				
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Approve	ea		Notes			