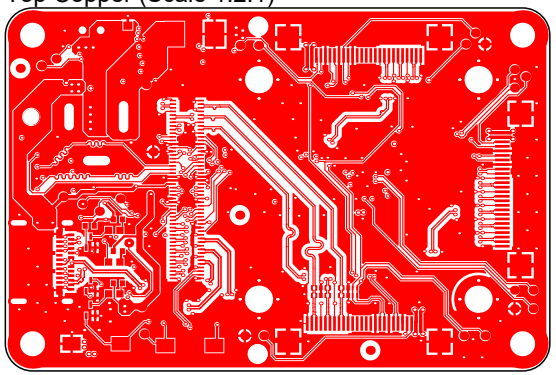
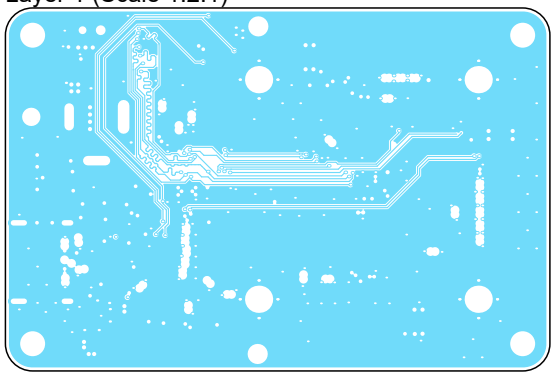
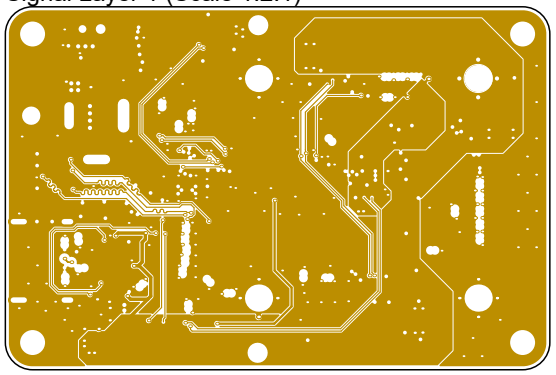
Top Copper (Scale 1.2:1)



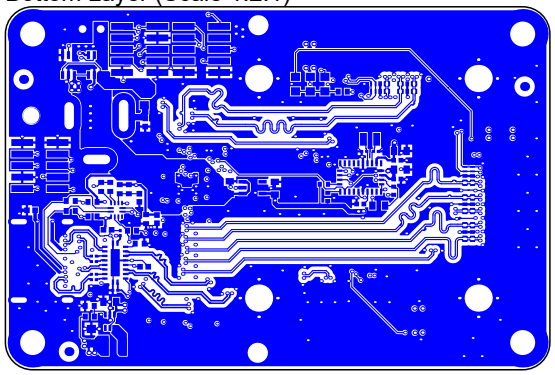
Layer 1 (Scale 1.2:1)



Signal Layer 1 (Scale 1.2:1)



Bottom Layer (Scale 1.2:1)



FABRICATION NOTES:

Fabricate per IPC-6011 & IPC-6012 CLASS 2
Inspect per IPC-A-600 CLASS 2
Test per IPC-TM-650

*** PCB has 4 copper layers**
*** Copper thicknesses are finished and include base foil plus Cu plating on plated layers.**
*** PCB thickness: 63mil +/- 3mil**
*** Min. trace width/clearance: 0.1mm/0.1mm**
*** Min. hole drill/ring: 8mil/16mil**
*** Soldermask gang relief is allowed for pads in same footprint, if footprint is NSMD.**
*** Silkscreen, non-conductive epoxy ink, color: black**
*** Solder mask color: white**
*** Remove slikscreen as needed to prevent ink on any exposed copper**
*** Surface finish: ENIG**
*** Hole dimensions are finished size, +/-3mil**
*** Linear board dimension tolerance: +/-10mil**
*** Bow, twist, warp not to exceed 0.75% of greatest diagonal span**
*** PCB shall be UL Recognized printed wiring board (ZPMV2), minimum flammability rating 94V-0**
*** PCB shall be marked with fabricator company or trade name, UL mark, and date code using legend ink on secondary side**
*** All PCBs shall be electrically tested for opens and shorts per gerber. Test marking shall be marked on secondard side.**
*** GM1 shall be used as PCB outline.**

Fabricator shall panelize the PCB using mouse bites and tab routing. V-scoring not allowed.

Controlled impedance differential pairs shall be within +/-10% for 100ohm targets, and +/-10% for 90ohm targets. See Sheet 3 for transmission line details and location of 90ohm differential pairs.

Title: ***DM1090***	LUXonjs
Number: DXXXX Revision: R3M0 E3	
Date: 14/02/2022 Sheet: 1 of 3	PROPRIETARY AND CONFIDENTIAL
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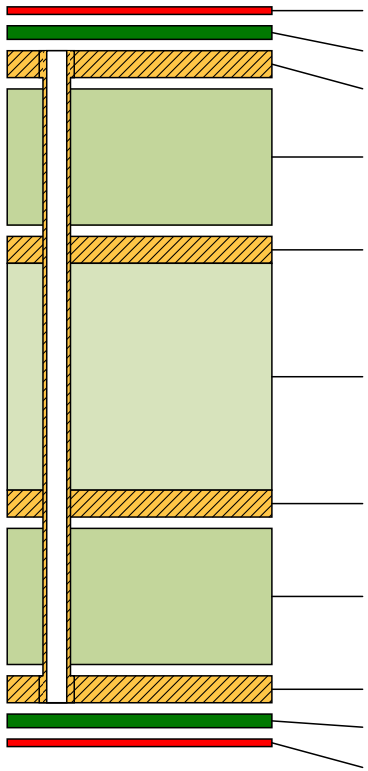
Layer Stack Legend



Layer	Thickness	Type	Gerber	Df	Dk
Top Overlay		Legend	GTO		
Top Mask	0.71mil(0.018mm)	Solder Mask	GTS		4,2
Top Copper	1.40mil(0.036mm)	Signal	GTL		
	7.09mil(0.180mm)	*Dielectric*		*0,02*	*4,2*
Signal Layer 1	1.40mil(0.036mm)	Signal	G1		
	43.31mil(1.100mm)	*Dielectric*		*0,02*	*4,2*
Layer 1	1.40mil(0.036mm)	Signal	G2		
	7.09mil(0.180mm)	*Dielectric*		*0,02*	*4,2*
Bottom Layer	1.40mil(0.036mm)	Signal	GBL		
Bottom Solder	0.71mil(0.018mm)	Solder Mask	GBS		4,2
Bottom Overlay		Legend	GBO		

Total thickness: 64.50mil(1.638mm)

Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
	381	8.00mil(0.203mm)	Plated	
	63	10.00mil(0.254mm)	Plated	
	4	23.62mil(0.600mm)	Plated	
	2	33.86mil(0.860mm)	Plated	
	3	41.34mil(1.050mm)	Plated	
	1	70.87mil(1.800mm)	Non-Plated	
	2	78.74mil(2.000mm)	Non-Plated	
	4	108.27mil(2.750mm)	Plated	
	4	118.11mil(3.000mm)	Plated	
	464 Total			

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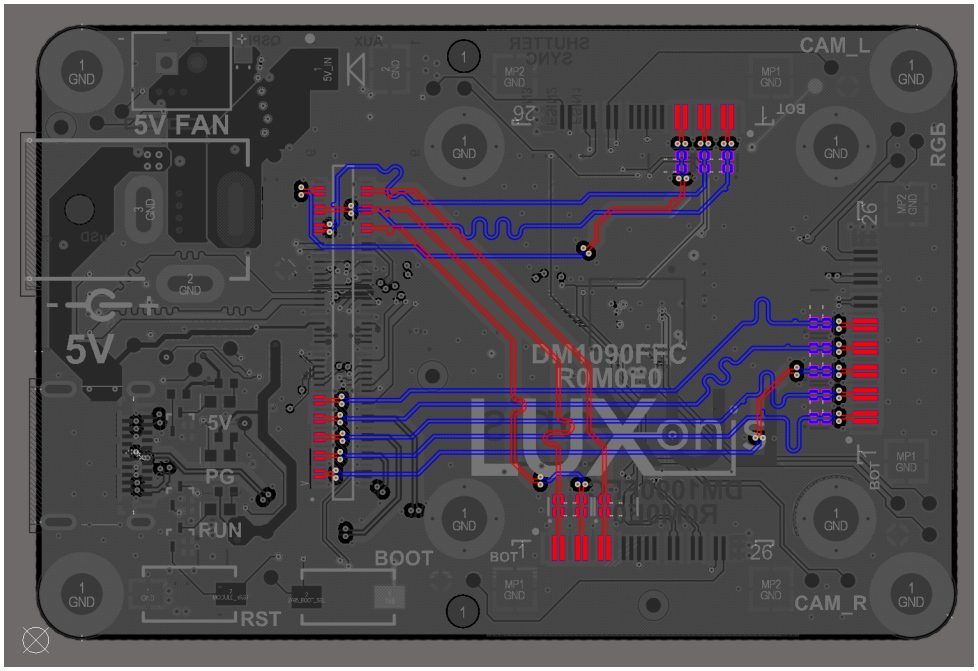
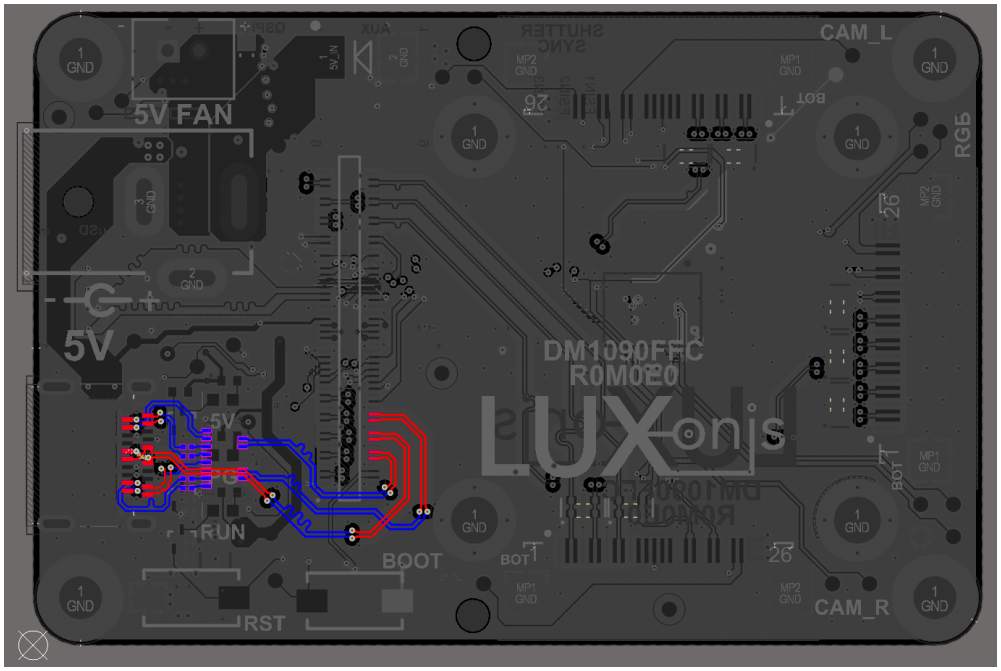


100 OHM (+/-10%) DIFF PAIRS



90 OHM (+/-10%) DIFF PAIRS

Transmission Line Structure Table

Impedance Id	Target Impedance	Calculated Impedance	Trace layer	Lower Trace Width	Upper Trace Width	Gap	Reference layers
1	100	101.48	Top Copper	5.0mil(0.127mm)	4.2mil(0.106mm)	4.0mil(0.102mm)	Signal Layer 1
2	90	91.35	Top Copper	7.0mil(0.178mm)	6.2mil(0.157mm)	4.0mil(0.102mm)	Signal Layer 1
3	100	101.48	Bottom Layer	5.0mil(0.127mm)	4.2mil(0.106mm)	4.0mil(0.102mm)	Layer 1
4	90	91.35	Bottom Layer	7.0mil(0.178mm)	6.2mil(0.157mm)	4.0mil(0.102mm)	Layer 1

Title: ***DM1090***	LUXonjs
Number: DXXXX Revision: R3M0 E3	
Date: 14/02/2022 Sheet: 3 of 3	PROPRIETARY AND CONFIDENTIAL
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