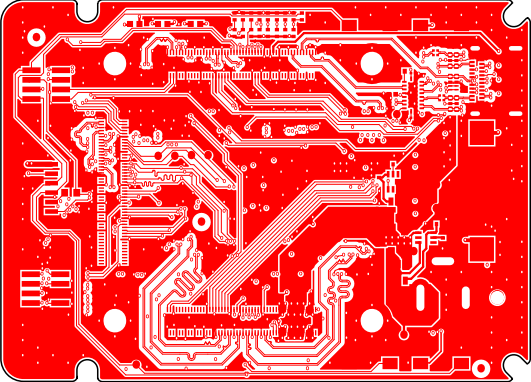
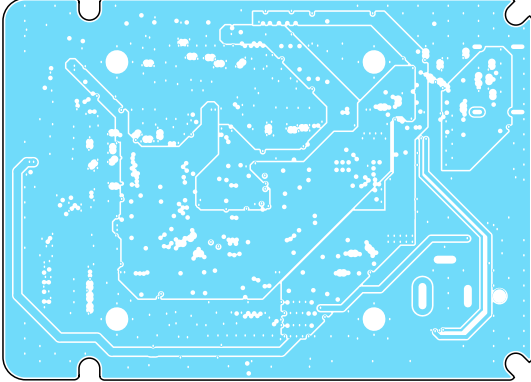


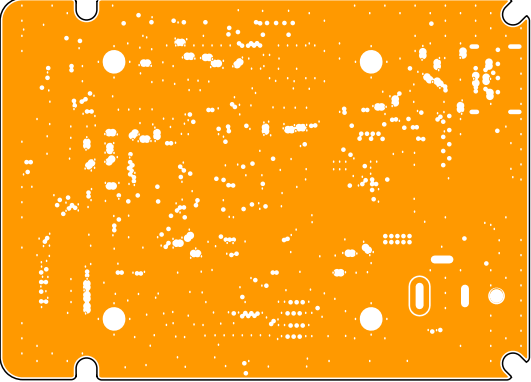
Top Copper (Scale 1:1)



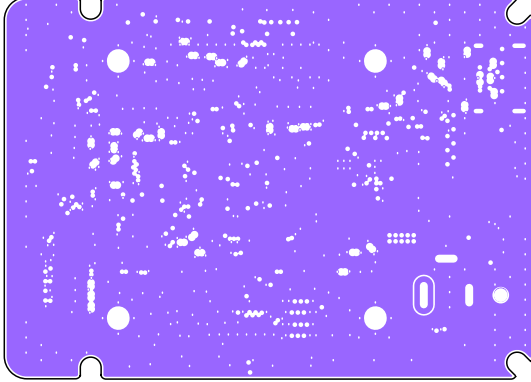
Layer 3 (Scale 1:1)



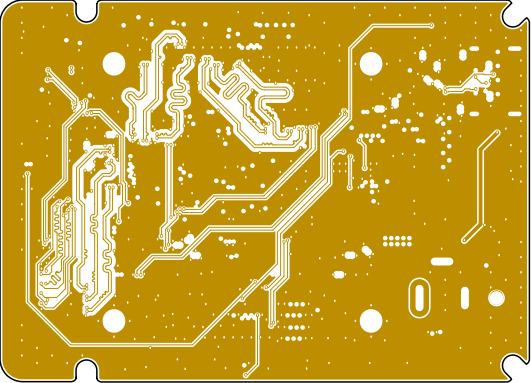
Layer 1 (Scale 1:1)



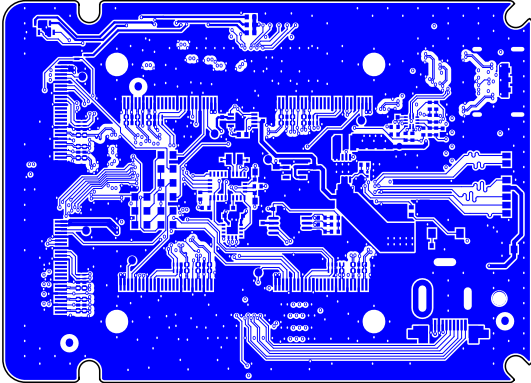
Layer 4 (Scale 1:1)



Layer 2 (Scale 1:1)



Bottom Layer (Scale 1:1)



FABRICATION NOTES:

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

- * PCB has 6 copper layers
- * Copper thicknesses are finished and include base foil plus Cu plating on plated layers.
- * PCB thickness: 63mil +/- 3mil
- * Min. trace width/clearance: 0.089mm/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: white
- * Solder mask color: green
- * 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.

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: DM3390
Number: D0000190 Revision: R0M0E0
Date: 16/05/2022 Sheet: 1 of 3
Drawn by: David Malovrh



PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF LUXONIS HOLDING CORPORATION. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION IS PROHIBITED.

A

B

C

D

E

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		
	2.80mil(0.071mm)	Dielectric		0,018	3,8
Layer 1	1.38mil(0.035mm)	Signal	G1		
	4.60mil(0.117mm)	Dielectric		0,017	4,1
Layer 2	1.38mil(0.035mm)	Signal	G2		
	39.00mil(0.991mm)	Dielectric		0,02	4,6
Layer 3	1.38mil(0.035mm)	Signal	G3		
	4.60mil(0.117mm)	Dielectric		0,017	4,1
Layer 4	1.38mil(0.035mm)	Signal	G4		
	2.80mil(0.071mm)	Dielectric		0,018	3,8
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: 63.53mil(1.614mm)					

Drill Table

Symbol	Count	Hole Size	Plated	Hole Type	Via / Pad	Pad Shape
⊕	824	8.00mil(0.203mm)	Plated	Round	Via	
□	4	23.62mil(0.600mm)	Plated	Slot	Pad	Rounded
◇	3	41.34mil(1.050mm)	Plated	Slot	Pad	Rounded
○	1	70.87mil(1.800mm)	Non-Plated	Round	Pad	Rounded
⊗	4	118.11mil(3.000mm)	Plated	Round	Pad	Rounded
	836 Total					

Title: **DM3390**

Number: D0000190 Revision: R0M0E0

Date: 16/05/2022 Sheet: 2 of 3

Drawn by: David Malovrh

LUXonjs

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF LUXONIS HOLDING CORPORATION. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION IS PROHIBITED.

A

B

C

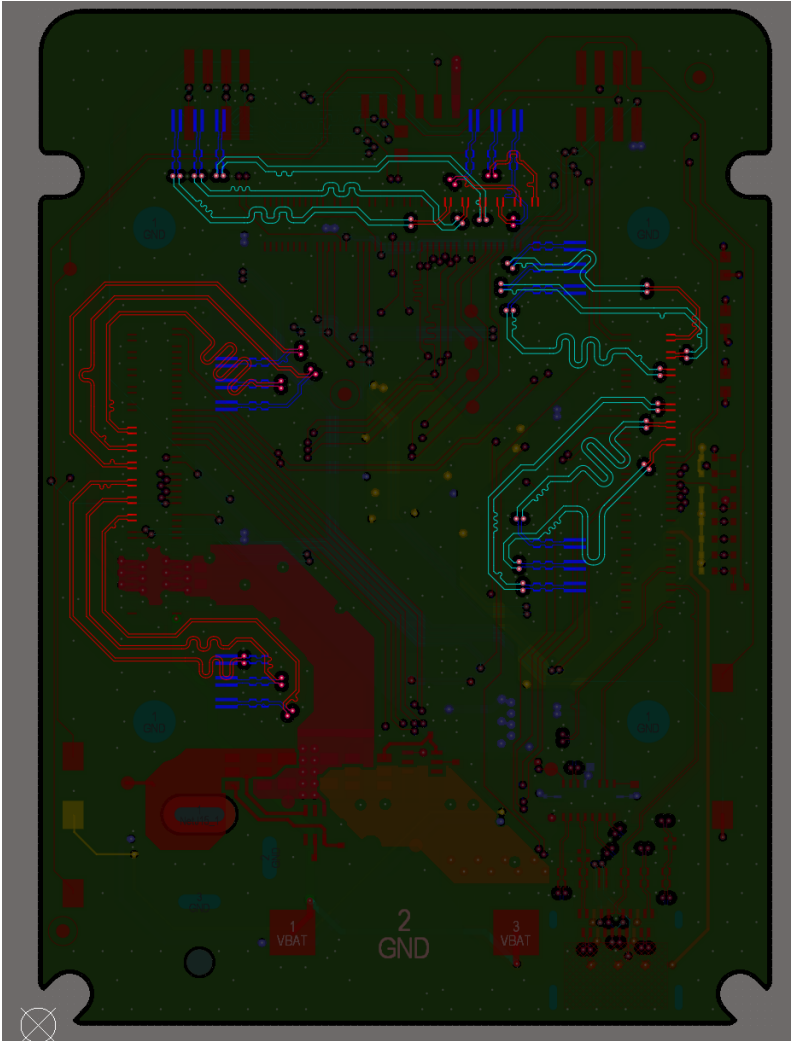
D

E

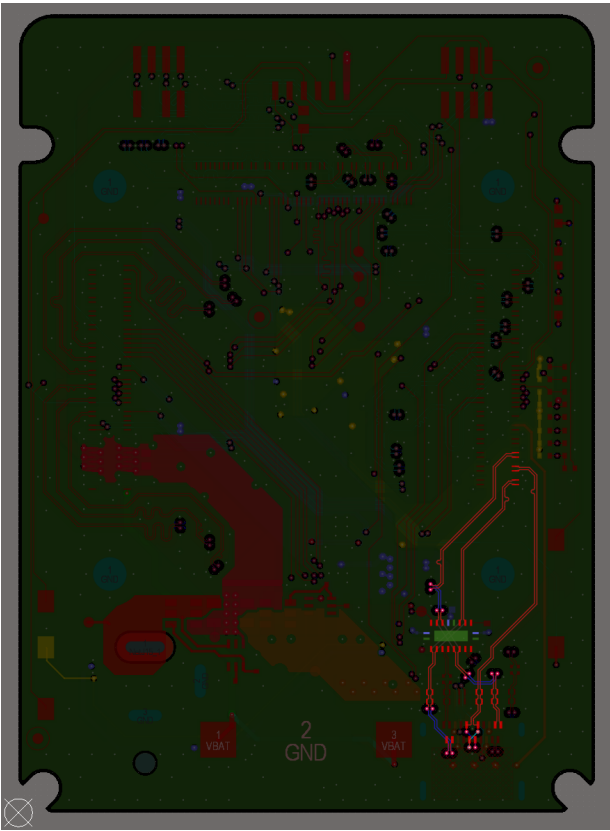
Transmission Line Structure Table


Impedance Id	Target Impedance	Calculated Impedance	Trace layer	Reference layers	Lower Trace Width	Gap
1	100	99.40	Top Copper	Layer 1	3.50mil(0.089mm)	5.00mil(0.127mm)
2	90	90.24	Top Copper	Layer 1	4.00mil(0.102mm)	4.00mil(0.102mm)
3	100	100.00	Layer 2	Layer 1,Layer 3	4.02mil(0.102mm)	10.29mil(0.261mm)
4	90	89.99	Layer 2	Layer 1,Layer 3	4.00mil(0.102mm)	6.08mil(0.154mm)
5	100	100.00	Layer 3	Layer 2,Layer 4	4.02mil(0.102mm)	10.29mil(0.261mm)
6	90	89.99	Layer 3	Layer 2,Layer 4	4.00mil(0.102mm)	6.08mil(0.154mm)
7	100	99.40	Bottom Layer	Layer 4	3.50mil(0.089mm)	5.00mil(0.127mm)
8	90	90.24	Bottom Layer	Layer 4	4.00mil(0.102mm)	4.00mil(0.102mm)

100 OHM (+/-10%) DIFF PAIRS



90 OHM (+/-10%) DIFF PAIRS



Title: DM3390	
Number: D0000190 Revision: R0M0E0	
Date: 16/05/2022 Sheet: 3 of 3	PROPRIETARY AND CONFIDENTIAL
Drawn by: David Malovrh	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF LUXONIS HOLDING CORPORATION. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION IS PROHIBITED.