

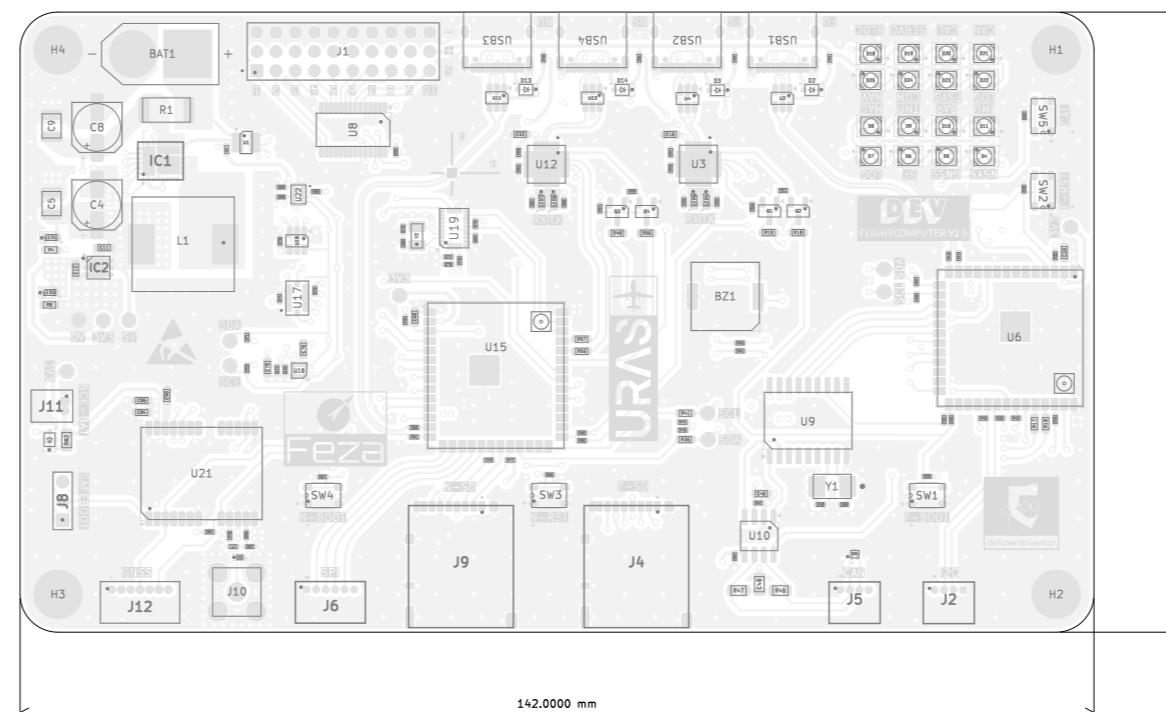
DEV FLIGHTCOMPUTER V1.0 Fabrication Document

Top Fabrication (Scale 1:1)

Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
Copper	L1 (Sig)	0.035mm (1oz)	Solder Resist	Paste Mask	GBR
Prepreg		0.196mm	FR-4	F.Silkscreen	GBR
Copper	L2 (GND)	0.035mm (1oz)	FR-4	F.Mask	GBR
Core		1.03mm	FR-4	Solder Mask	GBR
Copper	L3 (PWR)	0.035mm (1oz)	FR-4	Signal	GBR
Prepreg		0.196mm	FR-4	Dielectric	GBR
Copper	L4 (Sig)	0.035mm (1oz)	FR-4	Internal Plane	GBR
B.Mask				Legend	GBR
B.Silkscreen				Signal	GBR
B.Paste				Solder Mask	GBR
				Legend	GBR
				Paste Mask	GBR

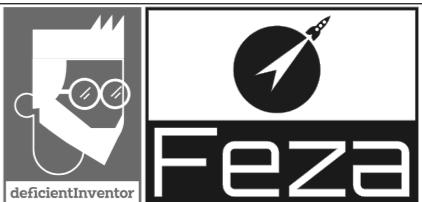
Total thickness: 1.58mm – Finished PCB Thickness: 1.61mm +- 10%
Note: external layer thicknesses are specified after plating.



FABRICATION NOTES (UNLESS OTHERWISE SPECIFIED)

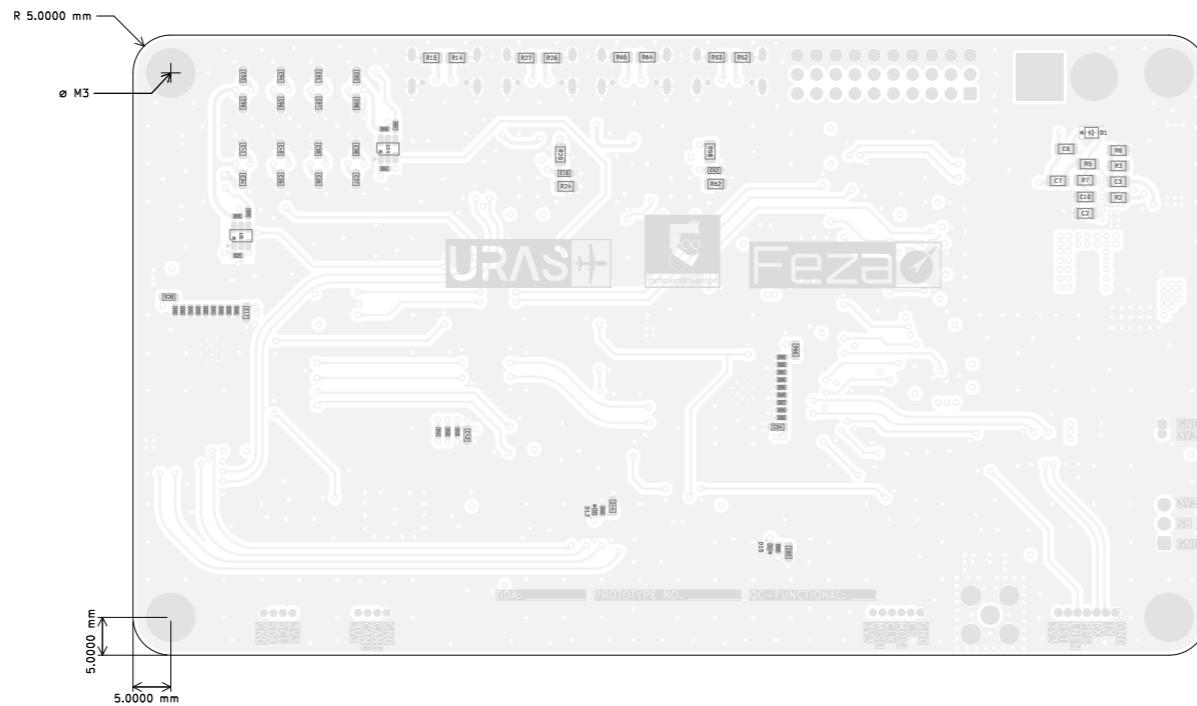
- OUTLINE DEFINED IN SEPARATE GERBER FILE WITH "Edge_Cuts.GBR" SUFFIX.
- SEE SEPARATE DRILL FILES WITH ".DRL" SUFFIX FOR HOLE LOCATIONS. SELECTED HOLE LOCATIONS SHOWN ON THIS DWG FOR REF ONLY.
- IMPEDANCE CONTROL REQUIRED.
 - Microstrip 90-Ohm Differential (L1 ref. L2)
0.35mm width, 0.15mm gap
 - Microstrip 50-Ohm RF & other Signals (L1 ref. L2)
0.327mm width
- CONFIRM TRACE WIDTHS AND SPACINGS.
- CONFIRM SOLDERMASK SPECIFICATIONS (ESPECIALLY FROM BMI088 & CP2102N)

All dimensions are in millimeters unless otherwise specified.

FEZA PCB - FABRICATION_TOP - Page 1/7	
Sheet FABRICATION_TOP File: feza_fcu_pcb.kicad_pcb	
Title: FEZA DEV Flightcomputer V1.0	
Size: A3 Date: 2025-01-03	
KiCad E.D.A. 8.0.7 Rev: V1.0	
Id: 1 of 1	

DEV FLIGHTCOMPUTER V1.0 Fabrication Document

Bottom Fabrication (Scale 1:1)

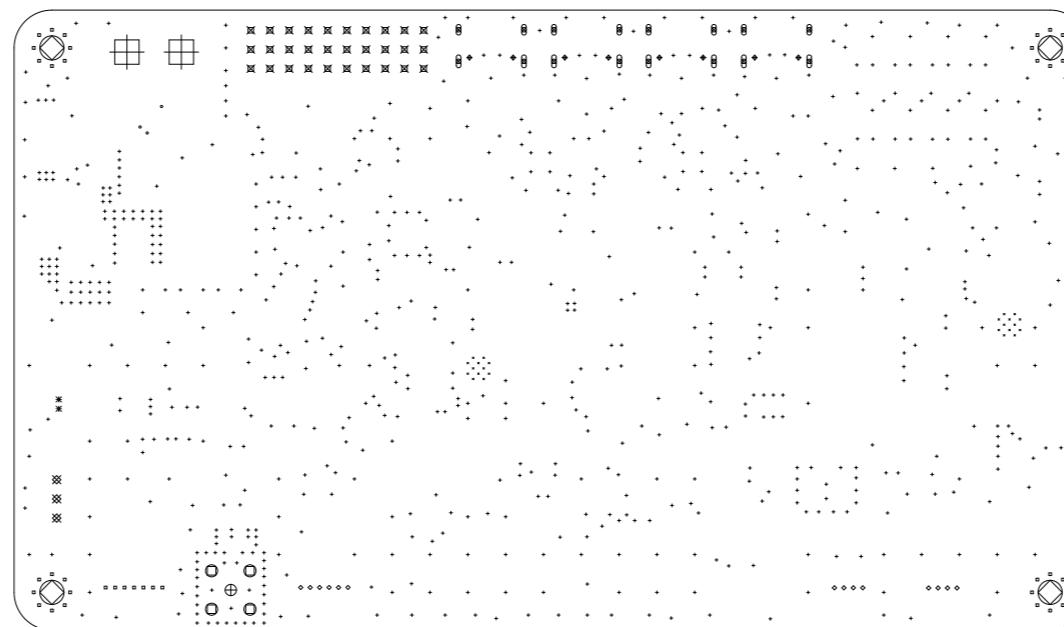


All dimensions are in millimeters unless otherwise specified.

FEZA PCB - FABRICATION_BOT - Page 2/7		
Sheet FABRICATION_BOT File: feza_fcu_pcb.kicad_pcb		
Title: FEZA DEV Flightcomputer V1.0		
Size: A3	Date: 2025-01-03	Rev: V1.0
KiCad E.D.A. 8.0.7		Id: 1 of 1

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Drill Drawing (Top View) (Scale 1:1)

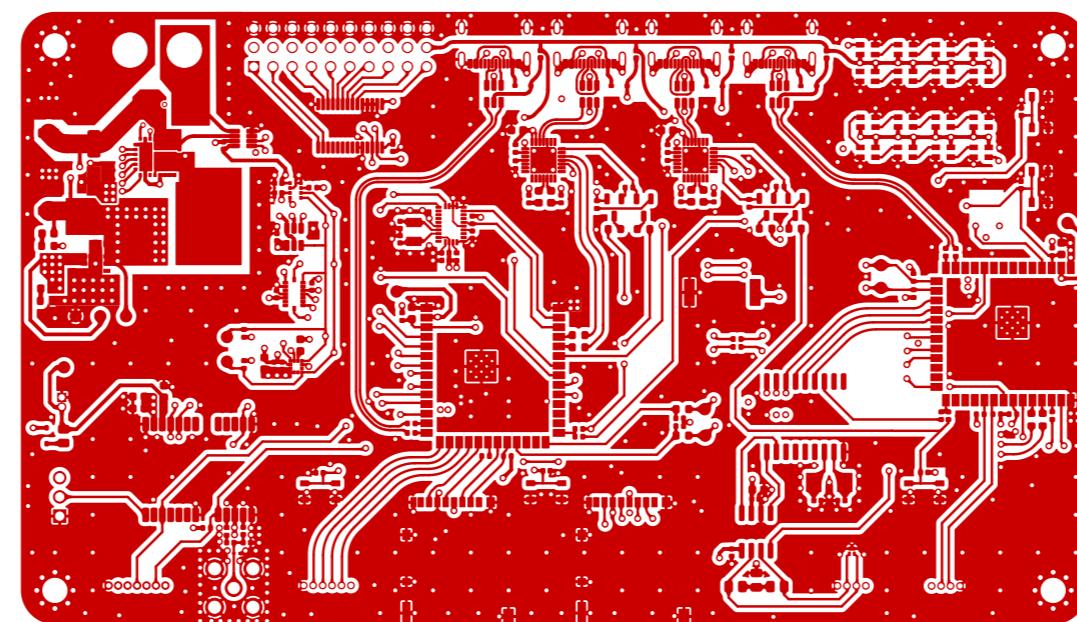


Drill Map

Symbol	Count	Hole Size	Plated
.	24	0.20mm	Plated
*	3	0.30mm	Plated
•	779	0.40mm	Plated
▫	39	0.50mm	Plated
◊	14	0.55mm	Plated
■	16 (slot)	0.60mm	Plated
◆	8	0.65mm	Unplated
*	2	0.70mm	Plated
☒	30	1.02mm	Plated
☒	3	1.10mm	Plated
⊕	1	1.50mm	Plated
○	4	1.60mm	Plated
◇	4	3.20mm	Plated
■	2	4.55mm	Plated

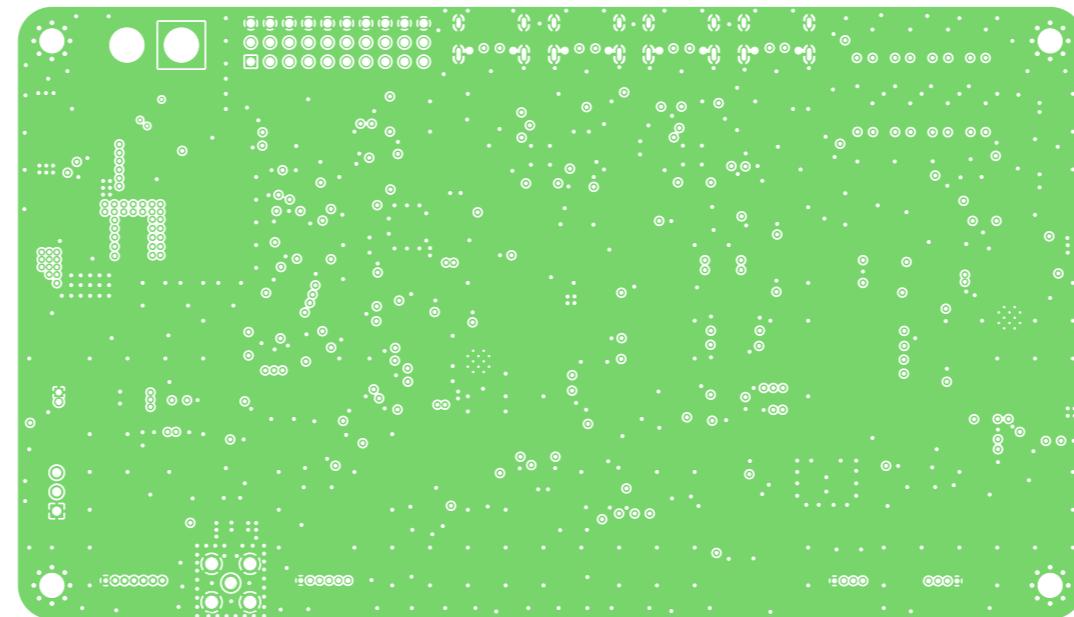
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L1 (SIG)



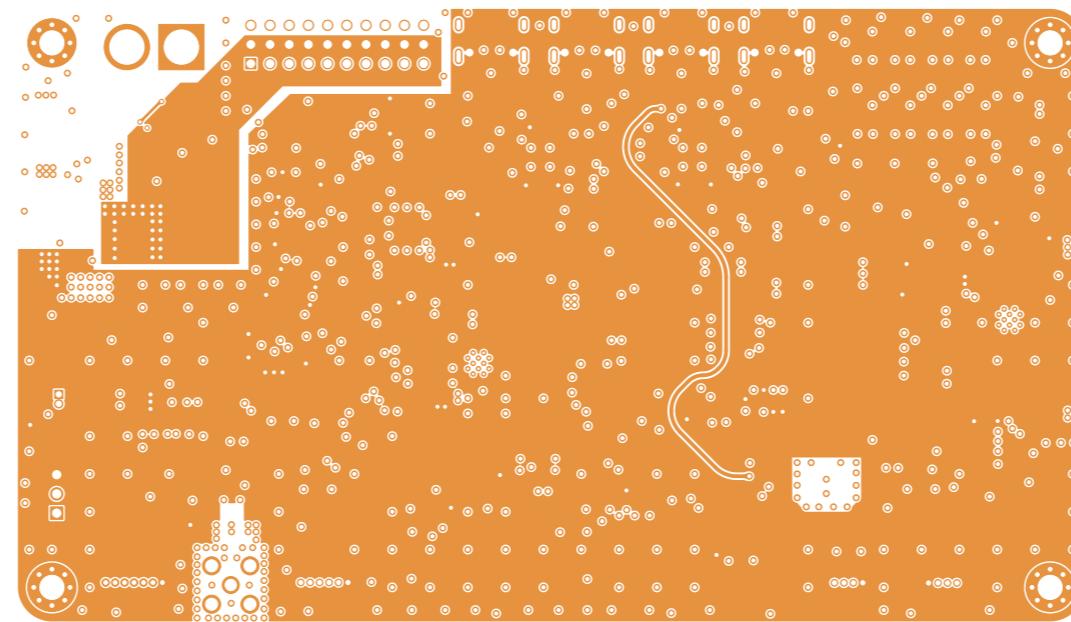
FEZA PCB - L1 - Page 4/7		
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Title: FEZA DEV Flightcomputer V1.0		
Size: A3	Date: 2025-01-03	Rev: V1.0
KiCad E.D.A. 8.0.7		Id: 1 of 1

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L2 (GND)

FEZA PCB - L2 - Page 5/7	FEZA deficientInventor
Sheet: L2	
File: feza_fcu_pcb.kicad_pcb	
Title: FEZA DEV Flightcomputer V1.0	
Size: A3	Date: 2025-01-03
KiCad E.D.A. 8.0.7	Rev: V1.0
	Id: 1 of 1

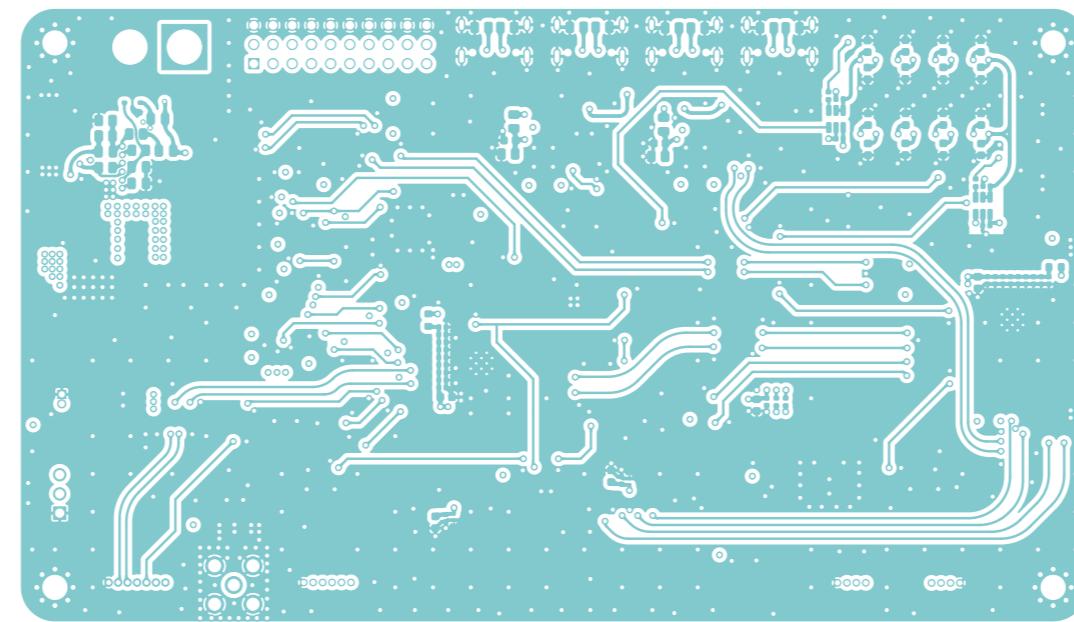
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L3 (PWR)

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Title: FEZA DEV Flightcomputer V1.0	
Size: A3	Date: 2025-01-03
KiCad E.D.A. 8.0.7	Rev: V1.0
	Id: 1 of 1

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L4 (SIG)



FEZA PCB - L4 - Page 7/7		 FEZA
Sheet: L4 File: feza_fcu_pcb.kicad_pcb		
Title: FEZA DEV Flightcomputer V1.0		
Size: A3	Date: 2025-01-03	Rev: V1.0
KiCad E.D.A. 8.0.7		Id: 1 of 1