

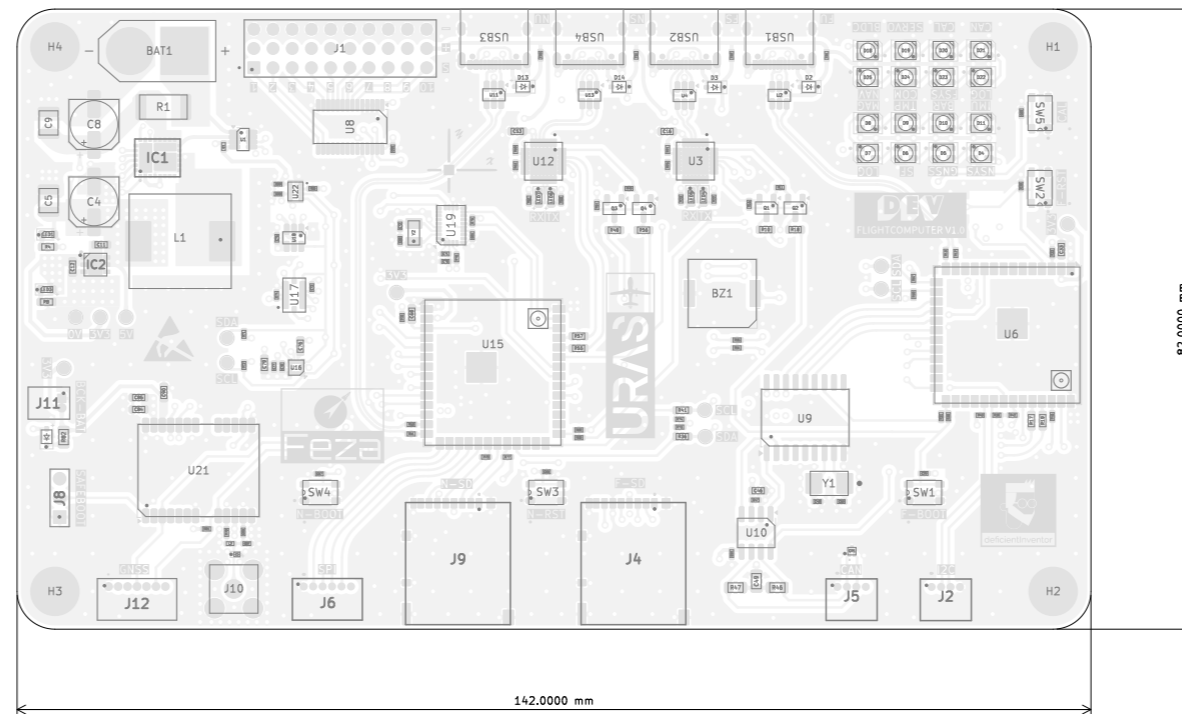
# DEV FLIGHTCOMPUTER V1.0 Fabrication Document

## Top Fabrication (Scale 1:1)

### Layer Stack Legend

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

- 1) OUTLINE DEFINED IN SEPARATE GERBER FILE WITH "Edge\_Cuts.GBR" SUFFIX.
- 2) SEE SEPARATE DRILL FILES WITH ".DRL" SUFFIX FOR HOLE LOCATIONS. SELECTED HOLE LOCATIONS SHOWN ON THIS DWG FOR REF ONLY.
- 3) 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
- 4) CONFIRM TRACE WIDTHS AND SPACINGS.
- 5) 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

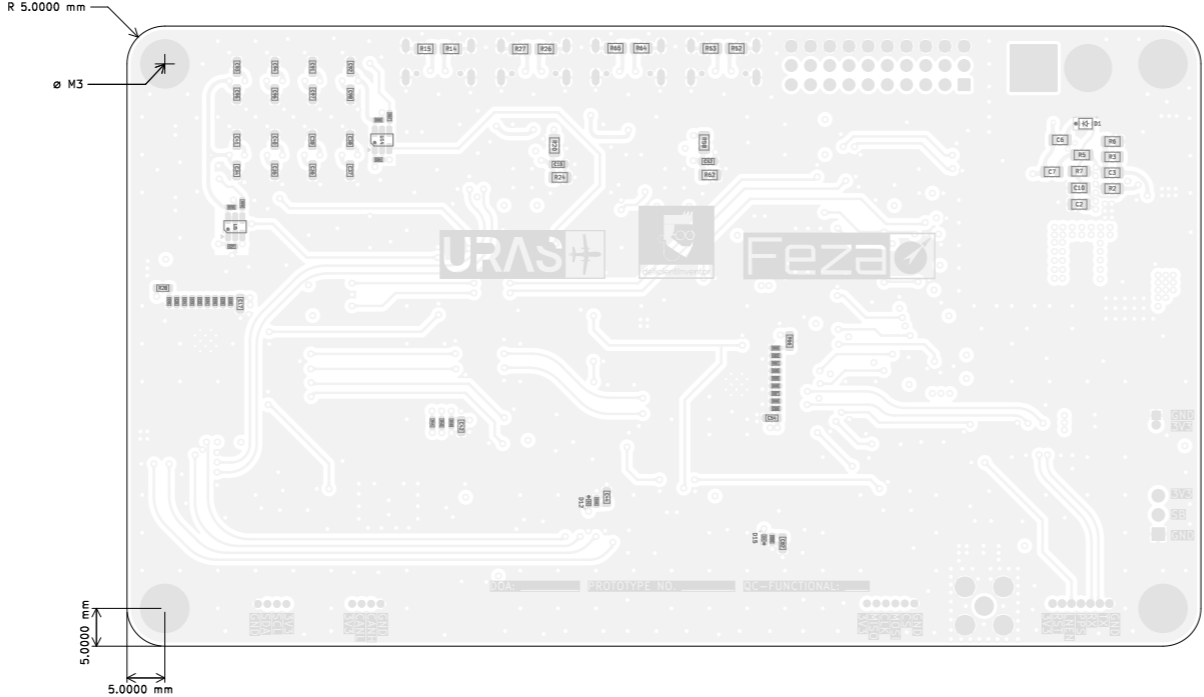
Rev: V1.0

KiCad E.D.A. 8.0.7



Id: 1 of 1

# DEV FLIGHTCOMPUTER V1.0 Fabrication Document

## Bottom Fabrication (Scale 1:1)

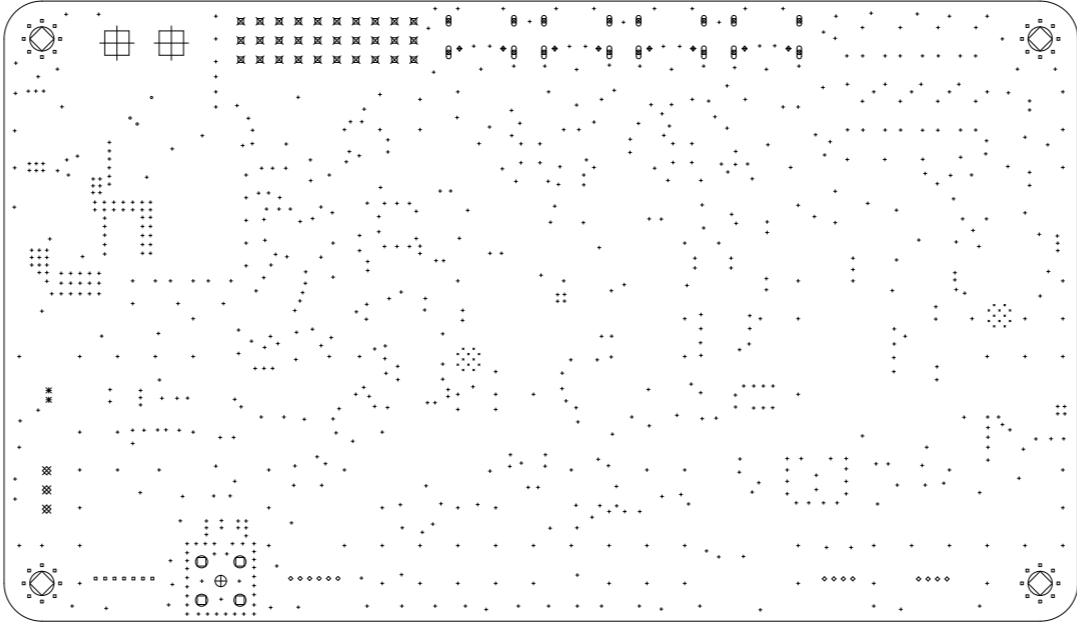


All dimensions are in millimeters unless otherwise specified.

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



# DEV FLIGHTCOMPUTER V1.0 Fabrication Document

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



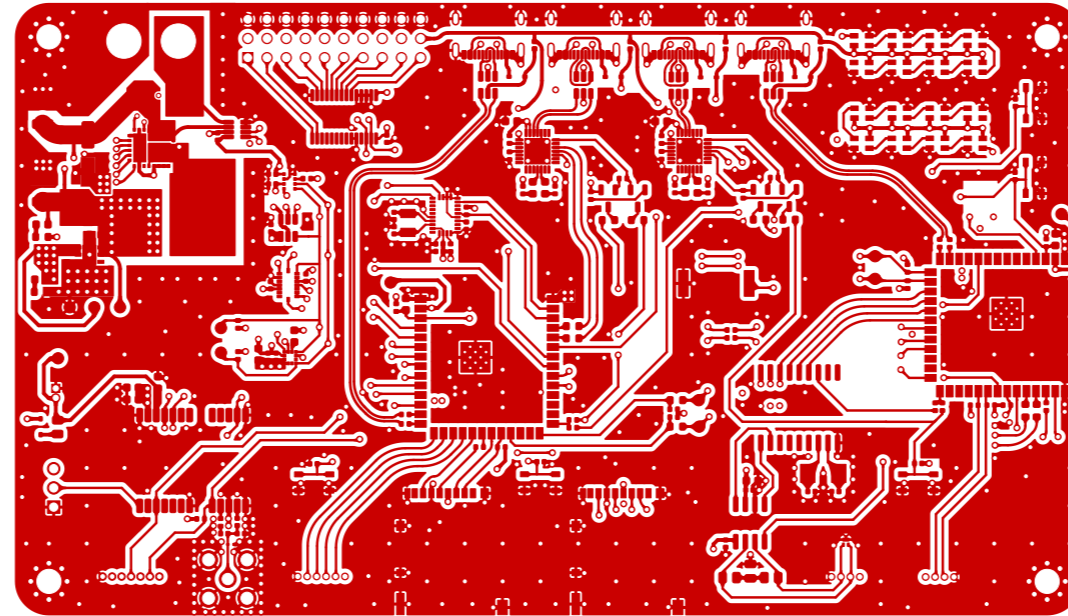
### Drill Map

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

FEZA PCB - DRILL_DRAWING - Page 3/7			
Sheet: DRILL_DRAWING File: feza_fcu_pcb.kicad_pcb			
<b>Title: FEZA DEV Flightcomputer V1.0</b>			
Size: A3	Date: 2025-01-03	Rev: V1.0	
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## L1 (SIG)



FEZA PCB - L1 - Page 4/7



Sheet: L1  
File: feza\_fcu\_pcb.kicad\_pcb

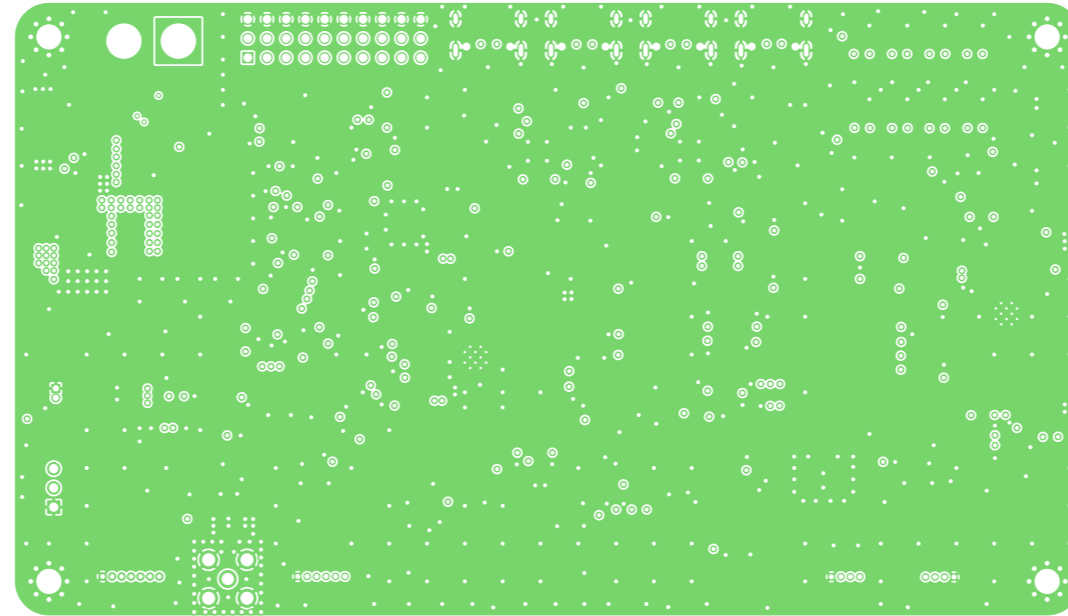
**Title: FEZA DEV Flightcomputer V1.0**

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

## L2 (GND)



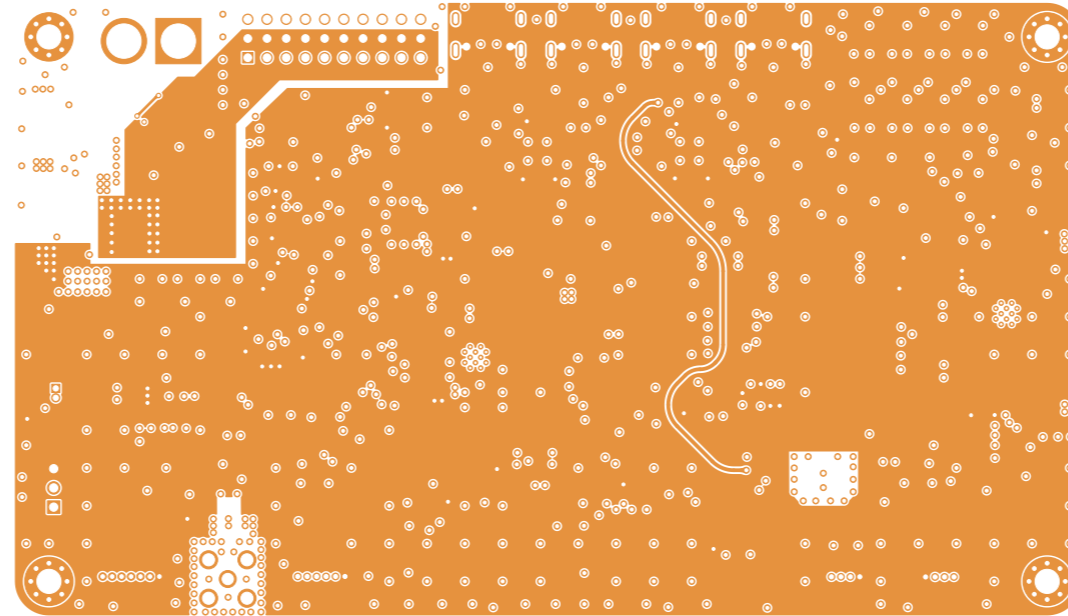
FEZA PCB - L2 - Page 5/7



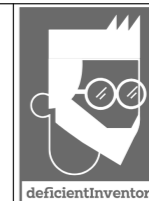
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<b>Title: FEZA DEV Flightcomputer V1.0</b>		
Size: A3	Date: 2025-01-03	Rev: V1.0
KiCad E.D.A. 8.0.7		Id: 1 of 1

# DEV FLIGHTCOMPUTER V1.0 Fabrication Document

## L3 (PWR)



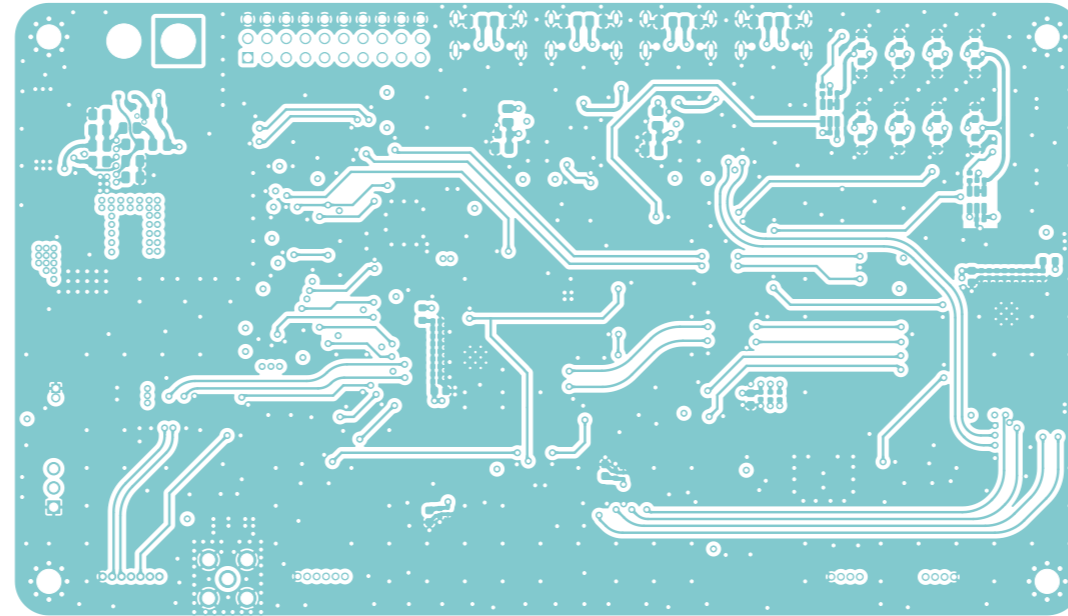
FEZA PCB - L3 - Page 6/7



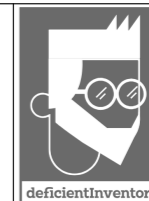
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<b>Title: FEZA DEV Flightcomputer V1.0</b>		<b>Rev: V1.0</b>	
Size: A3	Date: 2025-01-03	Id: 1 of 1	
KiCad E.D.A. 8.0.7			

# DEV FLIGHTCOMPUTER V1.0 Fabrication Document

## L4 (SIG)



FEZA PCB - L4 - Page 7/7



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