

Fabrication Information

Layer Stack Legend


Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
Surface Material	Top Solder	0.025mm	SM-002	Solder Mask	GTS
Nickel, Gold	Top Surface Finish	0.004mm		Surface Finish	
CF-004	Top Layer	0.035mm		Signal	GTL
Prepreg		0.099mm	PP-015	Dielectric	
CF-004	Layer 1	0.015mm		Signal	G1
Core		0.550mm	Core-009	Dielectric	
CF-004	Layer 2	0.018mm		Signal	G2
Prepreg		0.109mm	PP-006	Dielectric	
CF-004	Layer 3	0.018mm		Signal	G3
Core		0.550mm	Core-009	Dielectric	
CF-004	Layer 4	0.015mm		Signal	G4
Prepreg		0.099mm	PP-015	Dielectric	
CF-004	Bottom Layer	0.035mm		Signal	GBL
Nickel, Gold	Bottom Surface Finish	0.004mm		Surface Finish	
Surface Material	Bottom Solder	0.025mm	SM-002	Solder Mask	GBS
	Bottom Overlay			Legend	GBO
Total thickness: 1.602mm					

Fabrication Specifications

BASE MATERIAL:	FR-4
TG:	≥145
FINISH	
SURFACE FINISH:	See layer stack
HARD GOLD (CONTACT AREA):	No
ROHS COMPLAINT:	Yes
LEADFREE:	Yes
MARKING	
BASE MATERIAL UL MARKING:	Yes, on Bottom
DATECODE:	Yes, on Bottom
SILKSCREEN	
TOP:	Yes
BOTTOM:	Yes
COLOR:	White
SOLDERMASK	
TOP:	Yes
BOTTOM:	Yes
COLOR:	Matte black
VIA'S	
SOLDERRESIST ON VIA:	Yes
PLUGGING:	Yes, resin filled, Copper plated

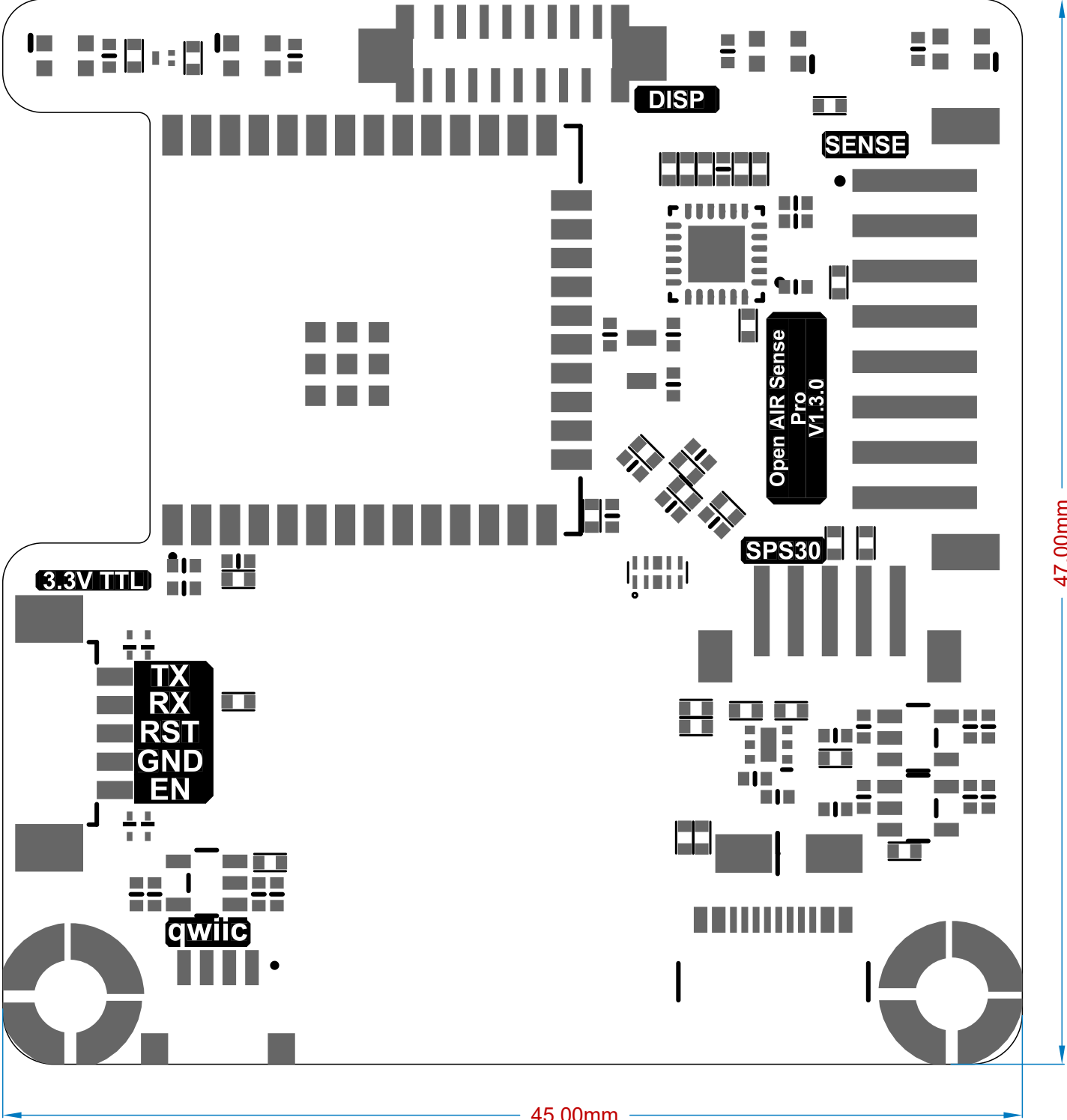
Transmission Line Structure Table

Impedance Id	Transmission Line	Target Impedance	Calculated Impedance	Target Tolerance	Gap	Clearance	Trace layer	Lower Trace Width	Upper Trace Width	Reference layers	Substack
1	Edge-Coupled Coated Microstrip	100	98.78	10%	0.20mm	0.13mm	Top Layer	0.12mm	0.12mm	Layer 1	Board Layer Stack
2	Edge-Coupled Coated Microstrip	100	98.78	10%	0.20mm	0.13mm	Bottom Layer	0.12mm	0.12mm	Layer 4	Board Layer Stack

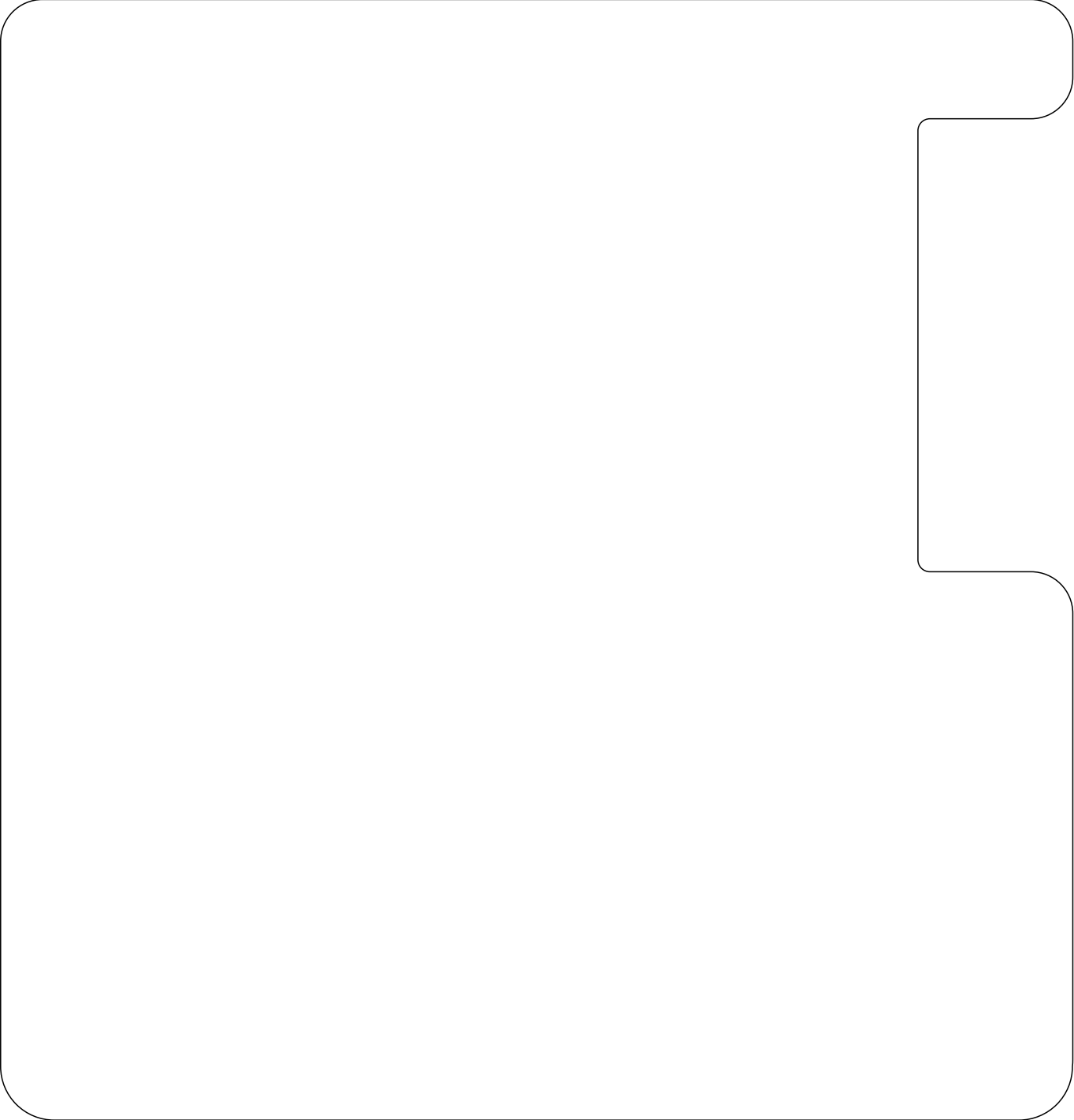
								PROJECT: Open AIR Sense Pro			
All dimensions are in millimeters (mm) unless noted. Default dimensional tolerance is ±0.1 mm.								Revision1.3.0		A3	
DRAWN	The Flamingo			REVIEW	Koen			Date:	31/10/2025		SHEET 1 OF 3


Component Placement - Top & Bottom

Top Overlay (Scale 4:1)



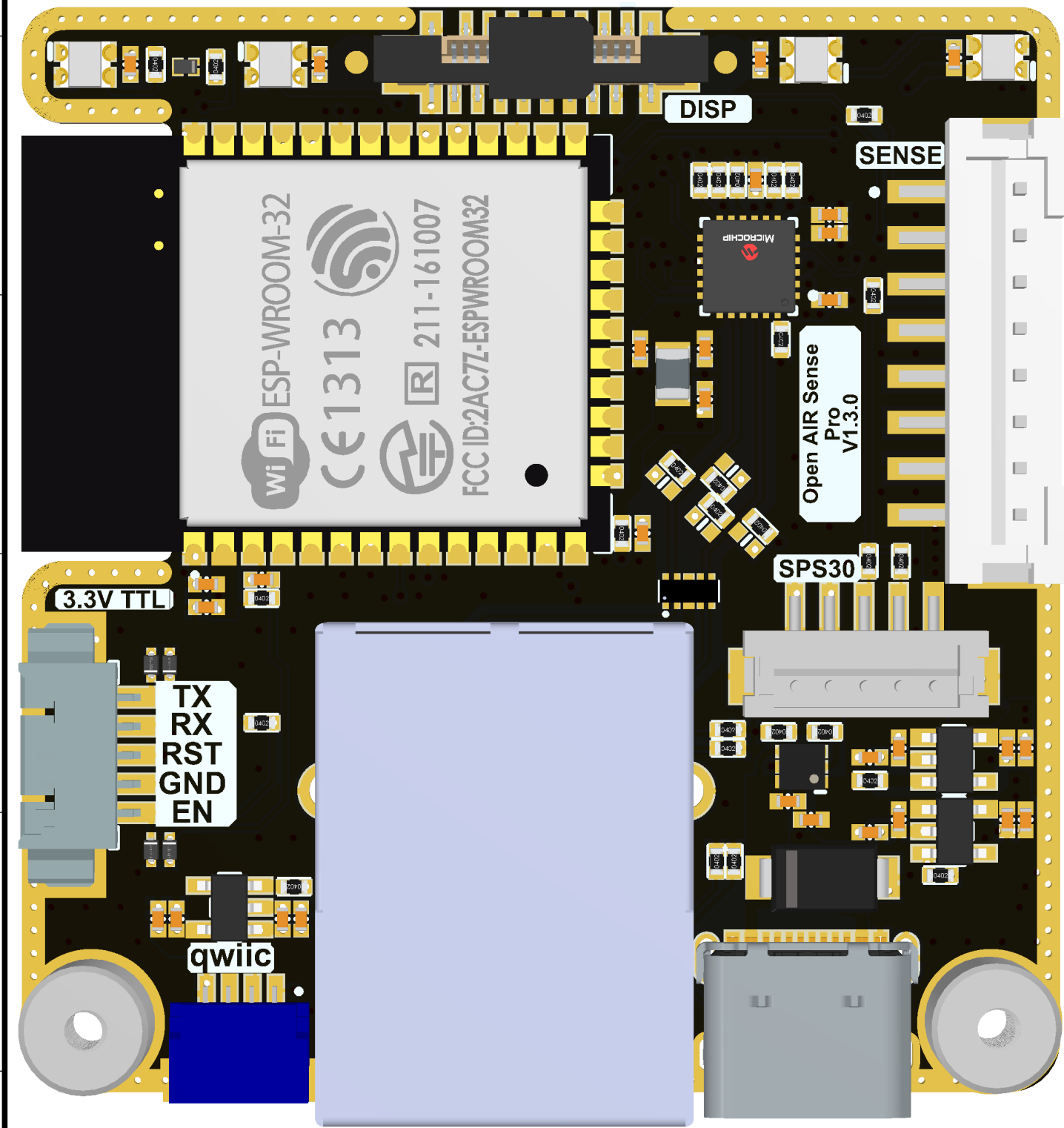
Bottom Overlay (Scale 4:1)



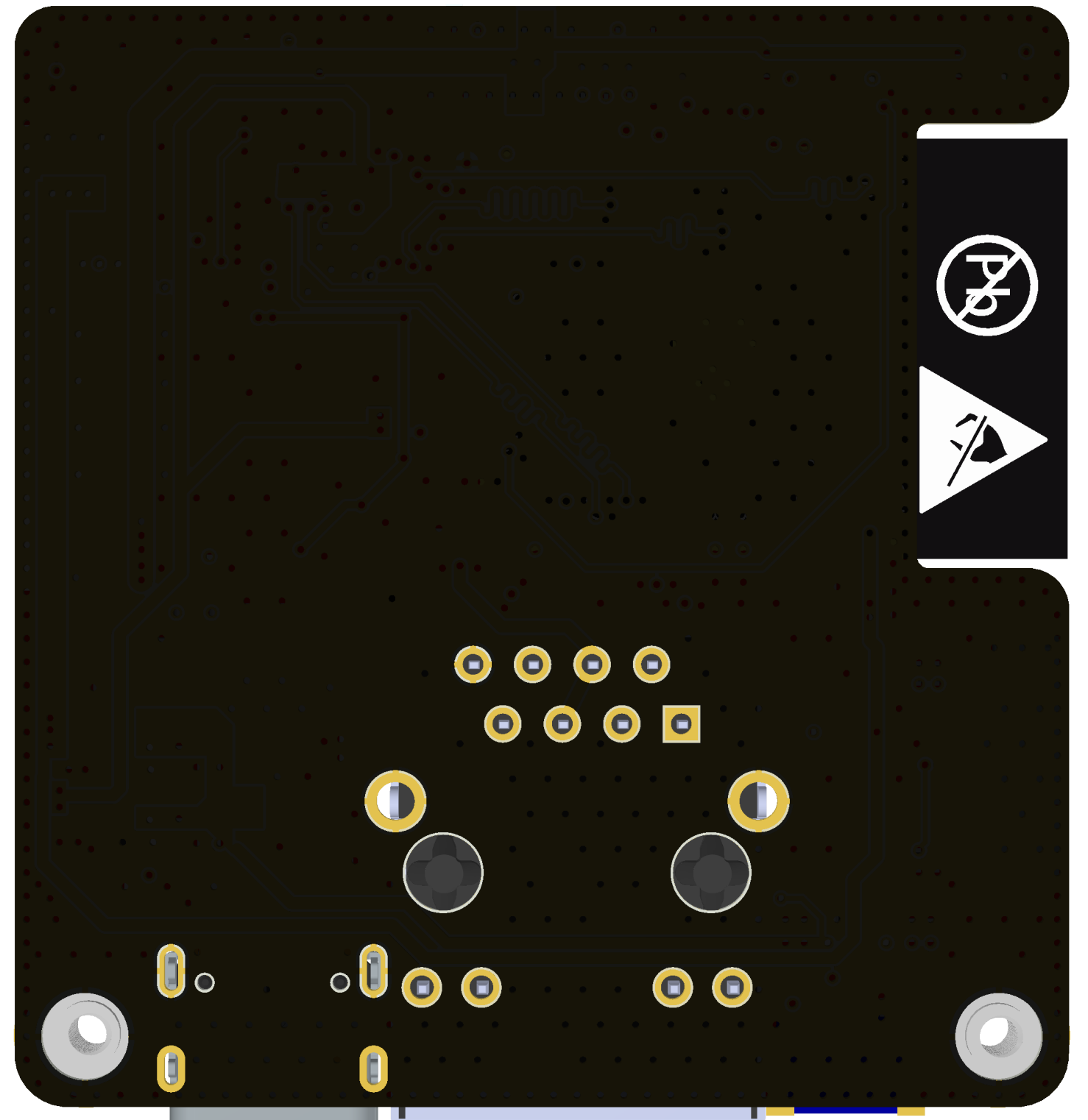
				PROJECT: Open AIR Sense Pro	
All dimensions are in millimeters (mm) unless noted. Default dimensional tolerance is ± 0.1 mm.				Revision 1.3.0	A3
DRAWN	The Flamingo	REVIEW	Koen	Date: 31/10/2025	SHEET 2 OF 3


Realistic view - TOP & BOT

Realistic View



Realistic View



				PROJECT: Open AIR Sense Pro	
All dimensions are in millimeters (mm) unless noted. Default dimensional tolerance is ± 0.1 mm.				Revision 1.3.0	A3
DRAWN	The Flamingo	REVIEW	Koen	Date: 31/10/2025	SHEET 3 OF 3