

Fabrication information

Layer Stack Legend


	Material	Layer	Thickness	Dielectric Material	Type	Gerber
		Top Overlay			Legend	GTO
	Surface Material	Top Solder	0.010mm	SM-002	Solder Mask	GTS
	Nickel, Gold	Top Surface Finish	0.018mm		Surface Finish	
	CF-003	Top Layer	0.018mm		Signal	GTL
	Prepreg		0.210mm	PP-021	Dielectric	
	CF-004	Mid-Layer 1	0.035mm		Signal	G1
	Core		1.065mm	Core-039	Dielectric	
	CF-004	Mid-Layer 2	0.035mm		Signal	G2
	Prepreg		0.210mm	PP-021	Dielectric	
	CF-003	Bottom Layer	0.018mm		Signal	GBL
	Nickel, Gold	Bottom Surface Finish	0.018mm		Surface Finish	
	Surface Material	Bottom Solder	0.010mm	SM-002	Solder Mask	GBS
		Bottom Overlay			Legend	GBO
Total thickness: 1.648mm						

Fabrication Specifications

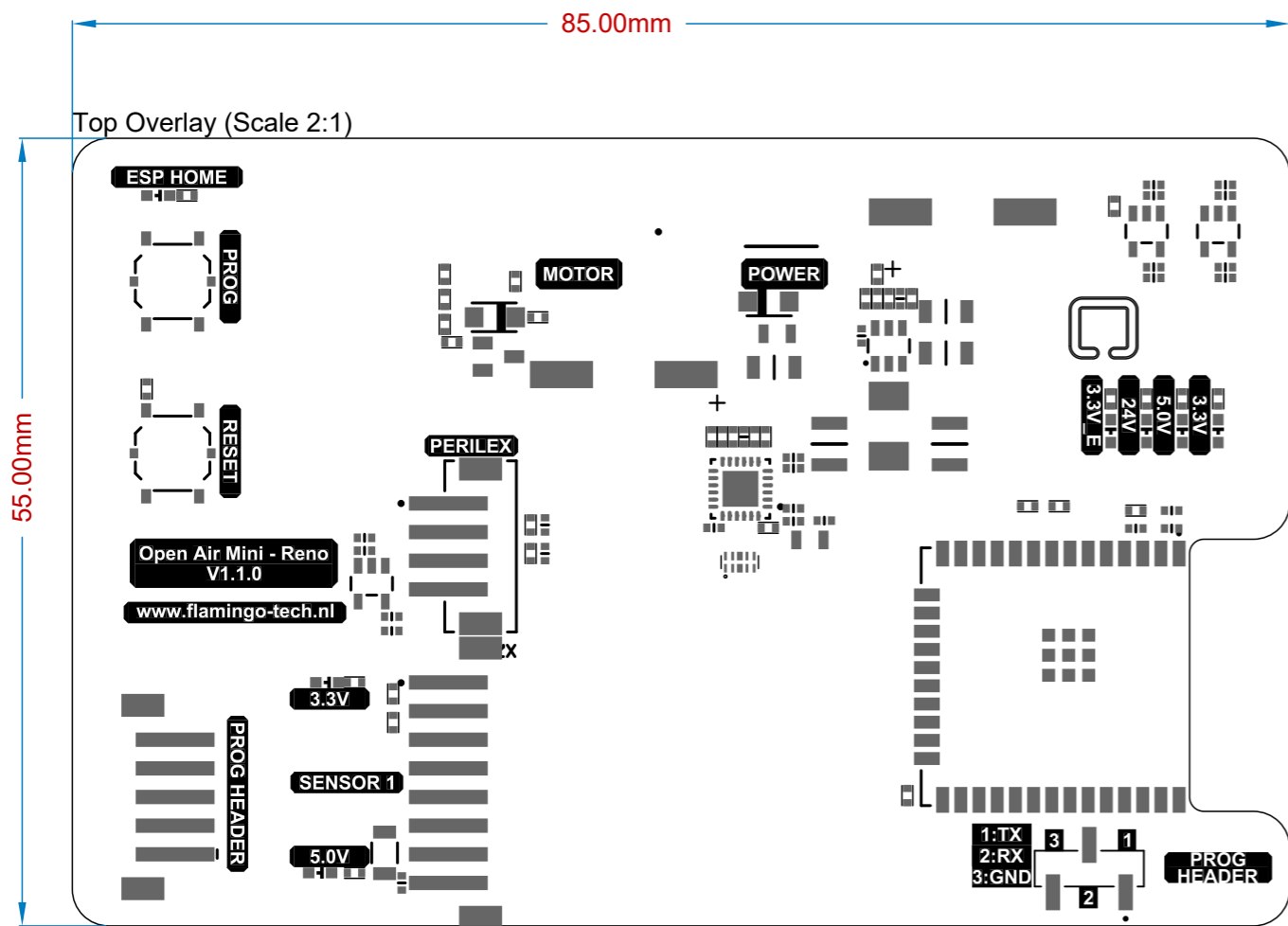
BASE MATERIAL:	FR-4
TG:	≥145
<u>FINISH</u>	
SURFACE FINISH:	See layer stack
HARD GOLD (CONTACT AREA):	No
ROHS COMPLAINT:	Yes
LEADFREE:	Yes
<u>MARKING</u>	
BASE MATERIAL UL MARKING:	Yes, on Bottom
DATECODE:	Yes, on Bottom
<u>SILKSCREEN</u>	
TOP:	Yes
BOTTOM:	Yes
COLOR:	White
<u>SOLDERMASK</u>	
TOP:	Yes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

Transmission Line Structure Table

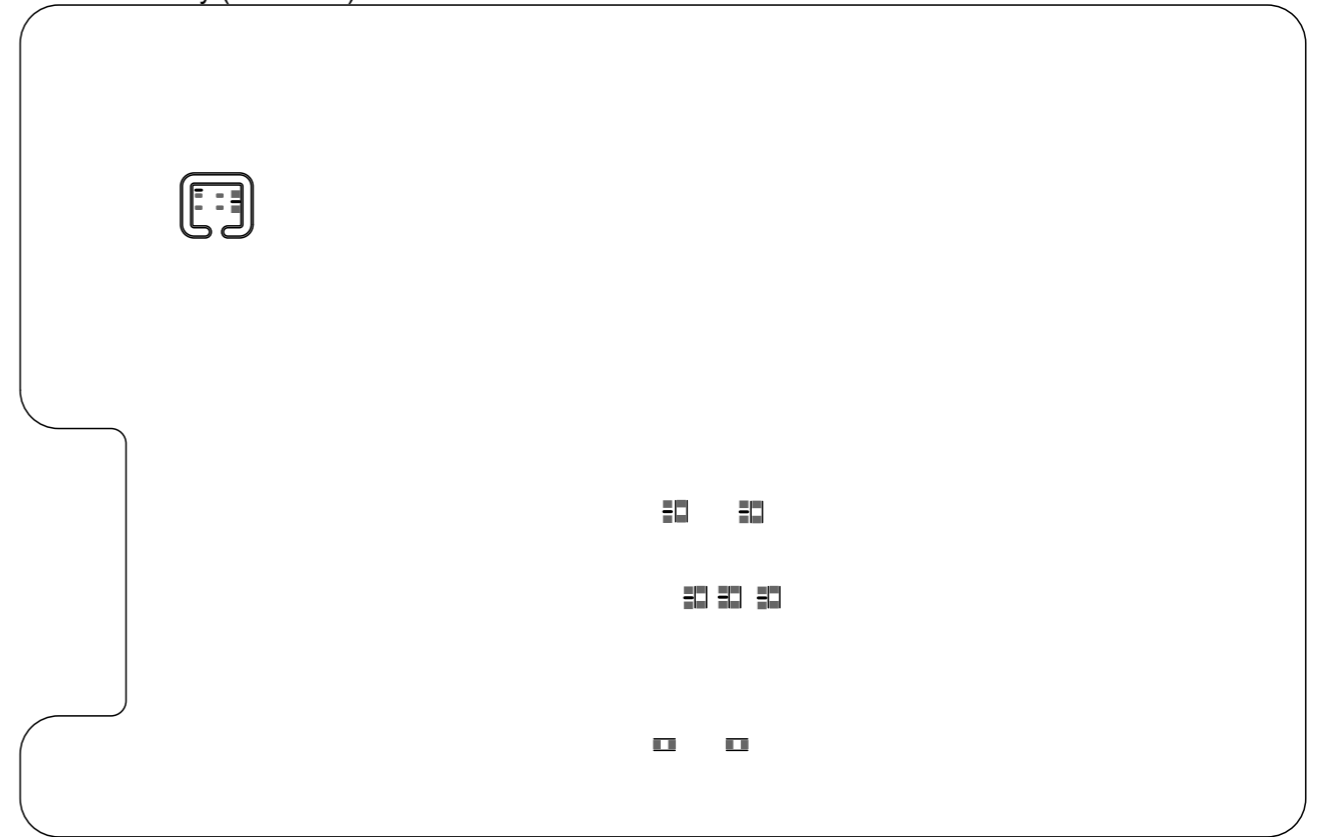
Impedance Id	Transmission Line	Target Impedance	Calculated Impedance	Trace layer	Lower Trace Width	Upper Trace Width	Reference layers	Substack
1	Edge-Coupled Coated Microstrip	100	95.03	Top Layer	0.22mm	0.22mm	Mid-Layer 1	Board Layer Stack
2	Edge-Coupled Coated Microstrip	100	95.03	Bottom Layer	0.22mm	0.22mm	Mid-Layer 2	Board Layer Stack


				PROJECT: Open AIR Mini - Reno	
All dimensions are in millimeters (mm) unless noted. Default dimensional tolerance is ±0.1 mm.				Revision	1.1
DRAWN The Flamingo				REVIEW Koen	A3
Date: 01/11/2025				SHEET 1 OF 3	

Component placement - TOP &



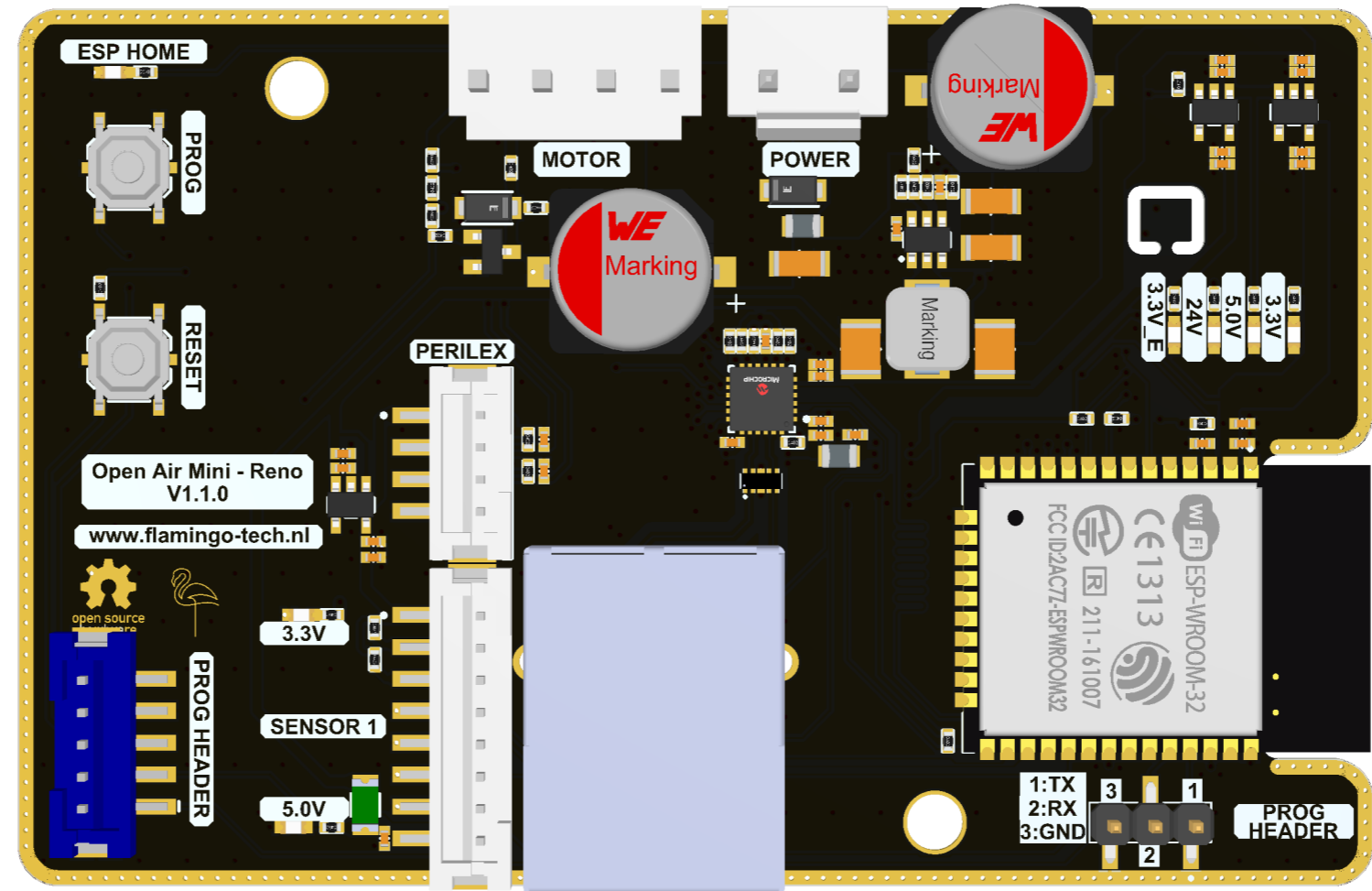
Bottom Overlay (Scale 2:1)



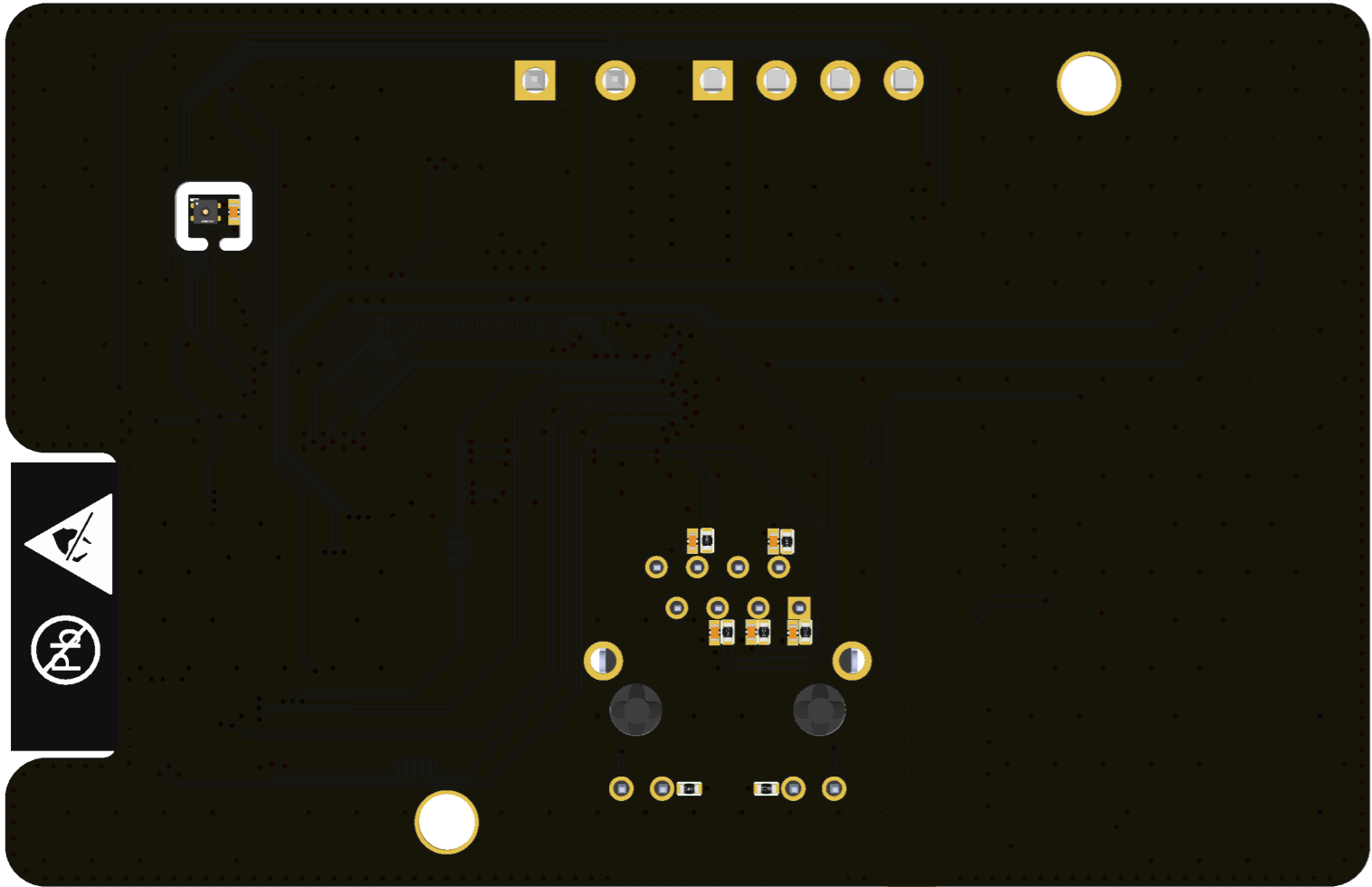
				PROJECT: Open AIR Mini - Reno	
All dimensions are in millimeters (mm) unless noted. Default dimensional tolerance is $\pm 0.1$ mm.				Revision 1.1	A3
DRAWN	The Flamingo	REVIEW	Koen	Date: 01/11/2025	SHEET 2 OF 3

Realistic view - TOP & BOT

Realistic View



Realistic View



PROJECT:		Open AIR Mini - Reno	
Revision		1.1	A3
Date:		01/11/2025	SHEET 3 OF 3
DRAWN	The Flamingo	REVIEW	Koen