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Fabrication Information

Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber Legend
	Top Overlay				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

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

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

All dimensions are in millimeters (mm) unless noted.
Default dimensional tolerance is ±0.1 mm.

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PROJECT: Open AIR Sense Pro

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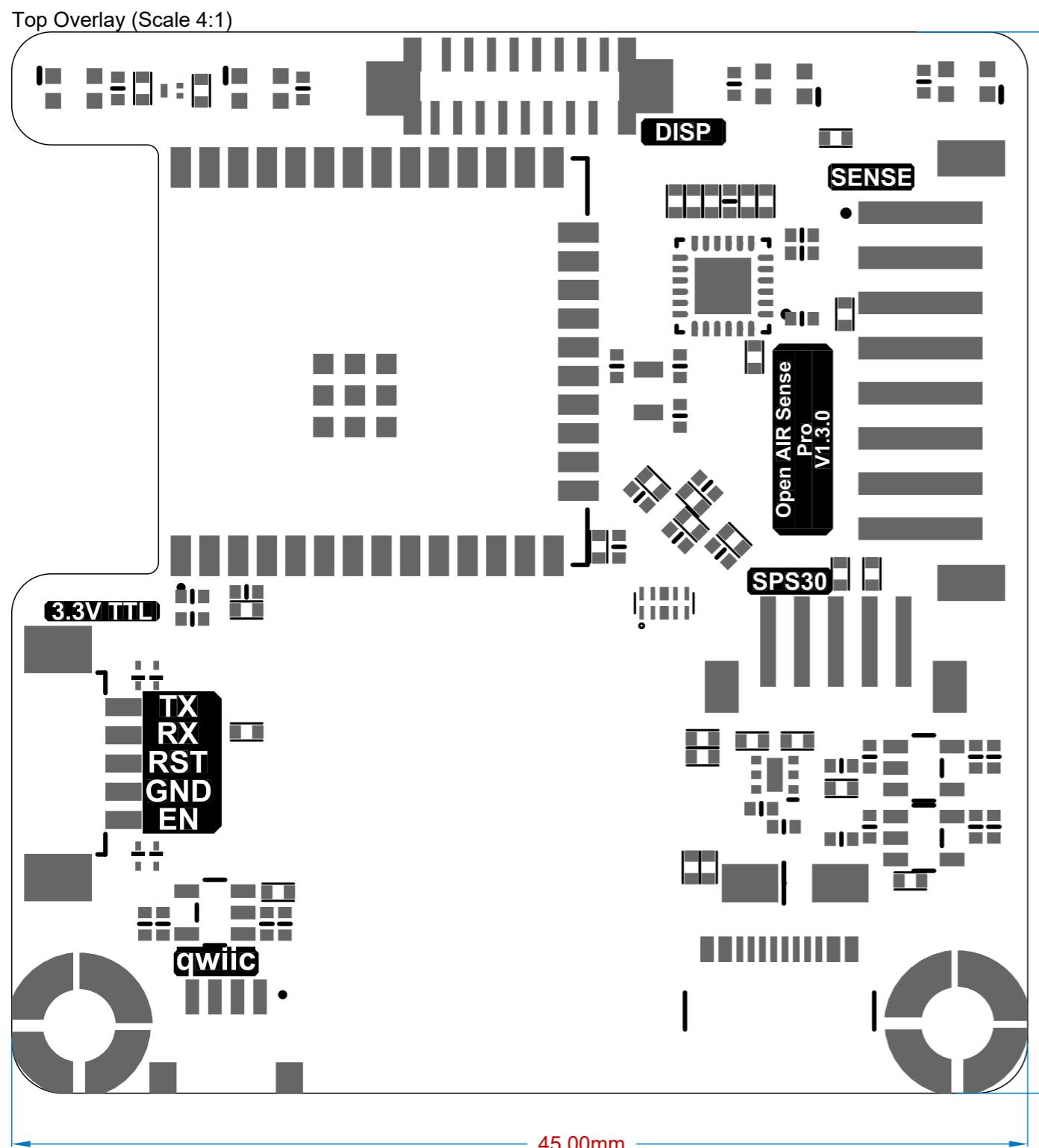
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Component Placement - Top & Bottom



Bottom Overlay (Scale 4:1)

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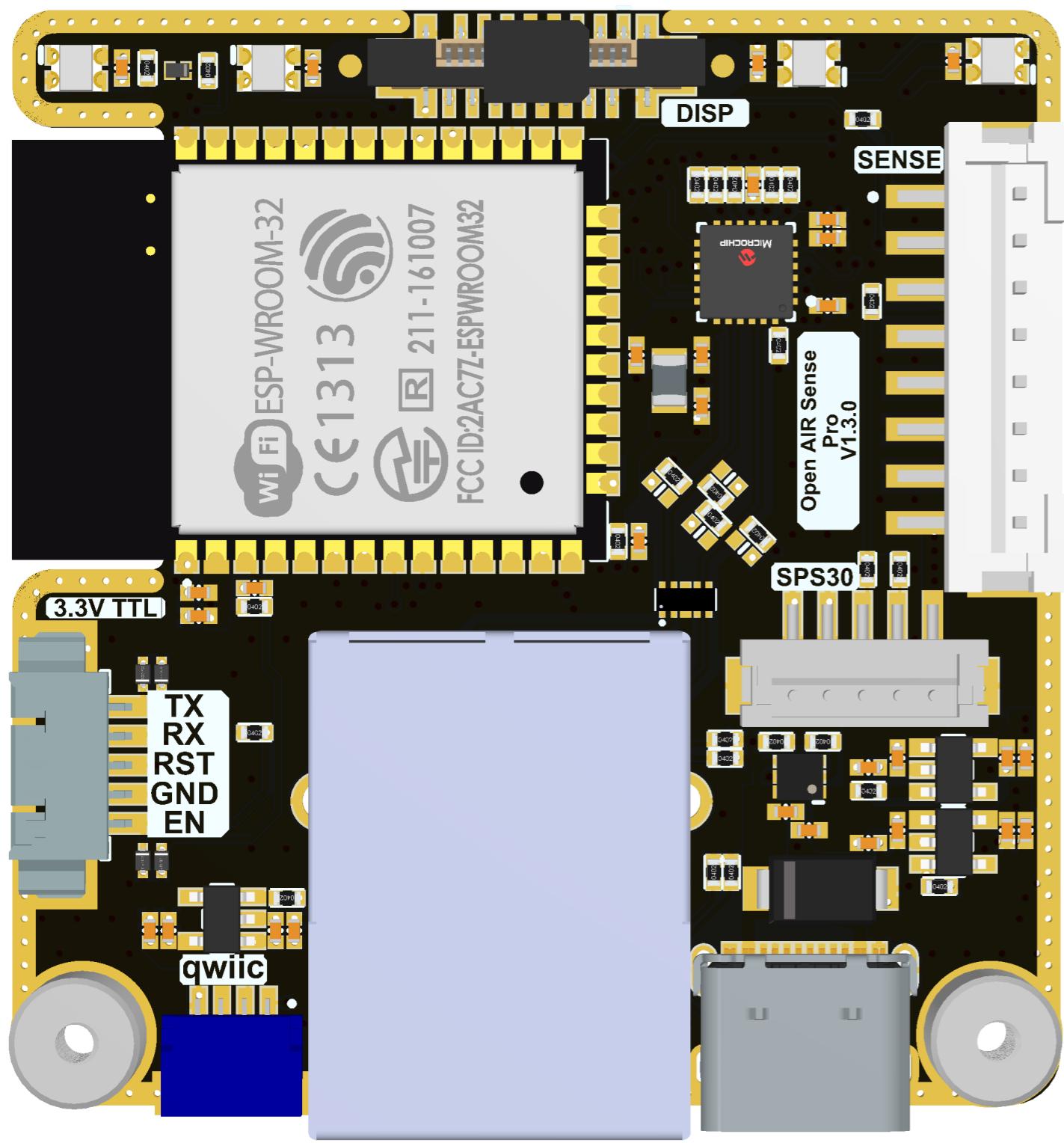
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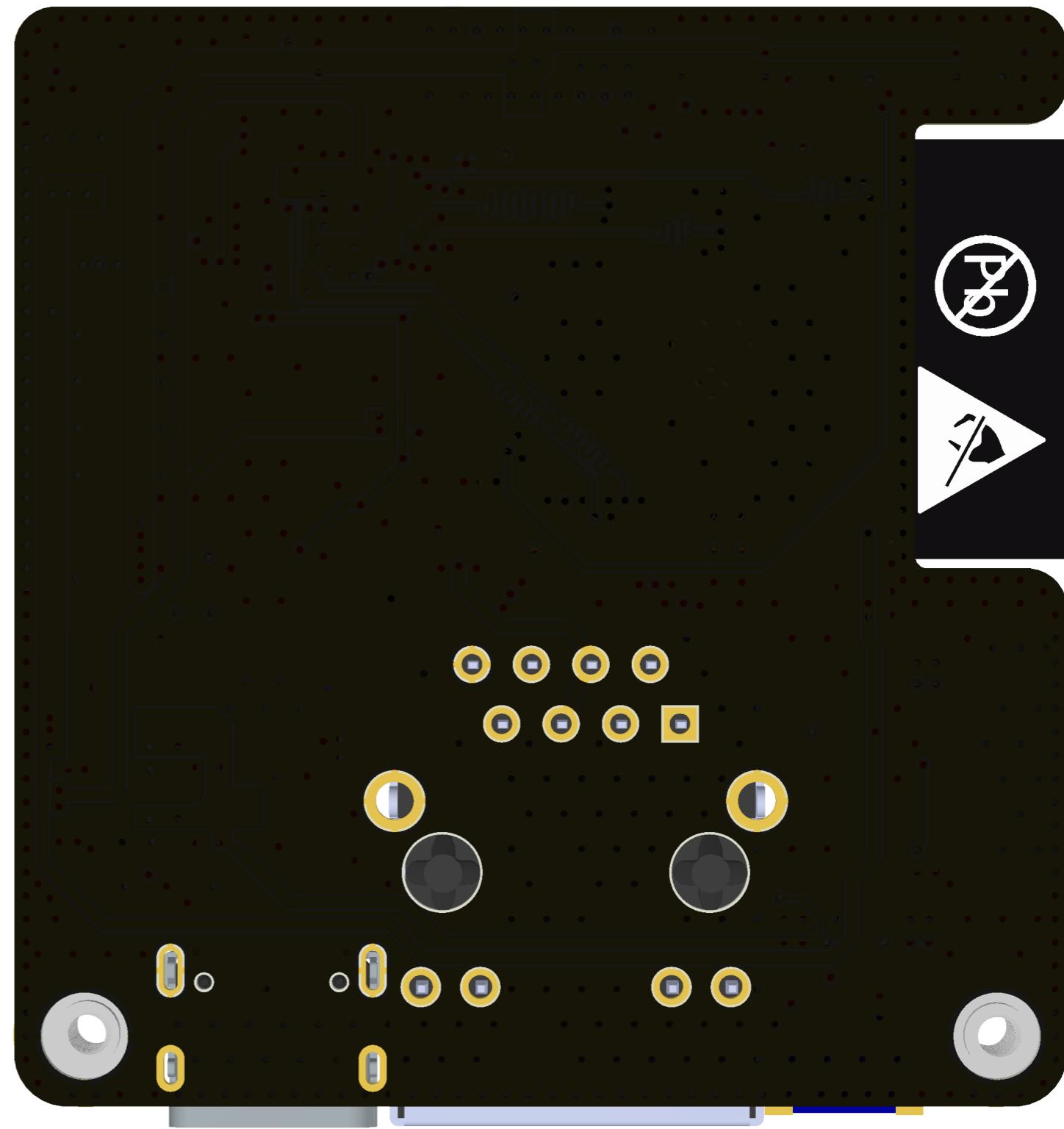
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Realistic view - TOP & BOT

Realistic View



Realistic View



PROJECT:

Open AIR Sense Pro

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