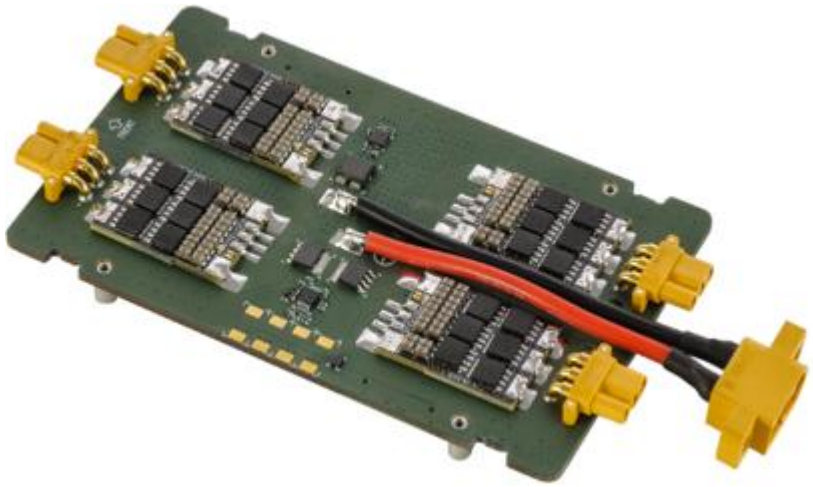
Amarjit Bhatia

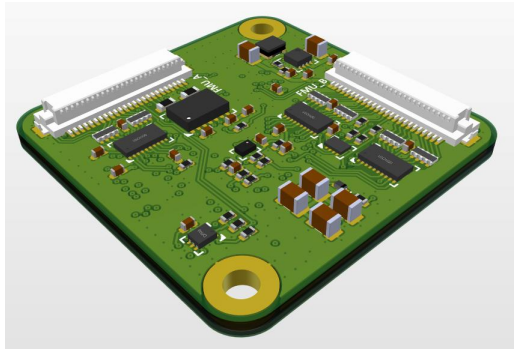
Drone Multi assembly system design

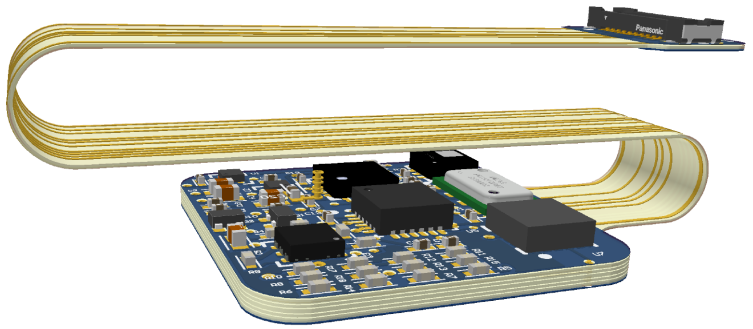
October’2024-May’2025

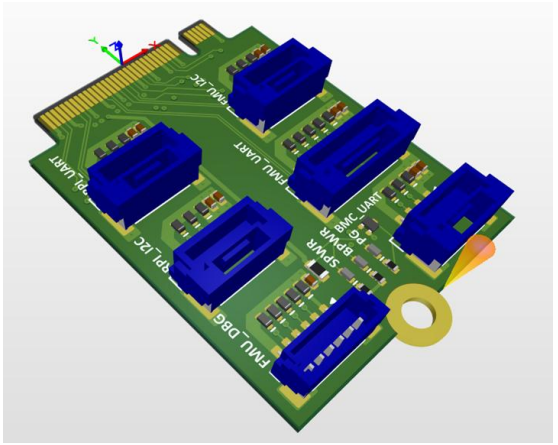
Drone Multi-Module System Design

Drone control system modules









Interface board Fab Drawing

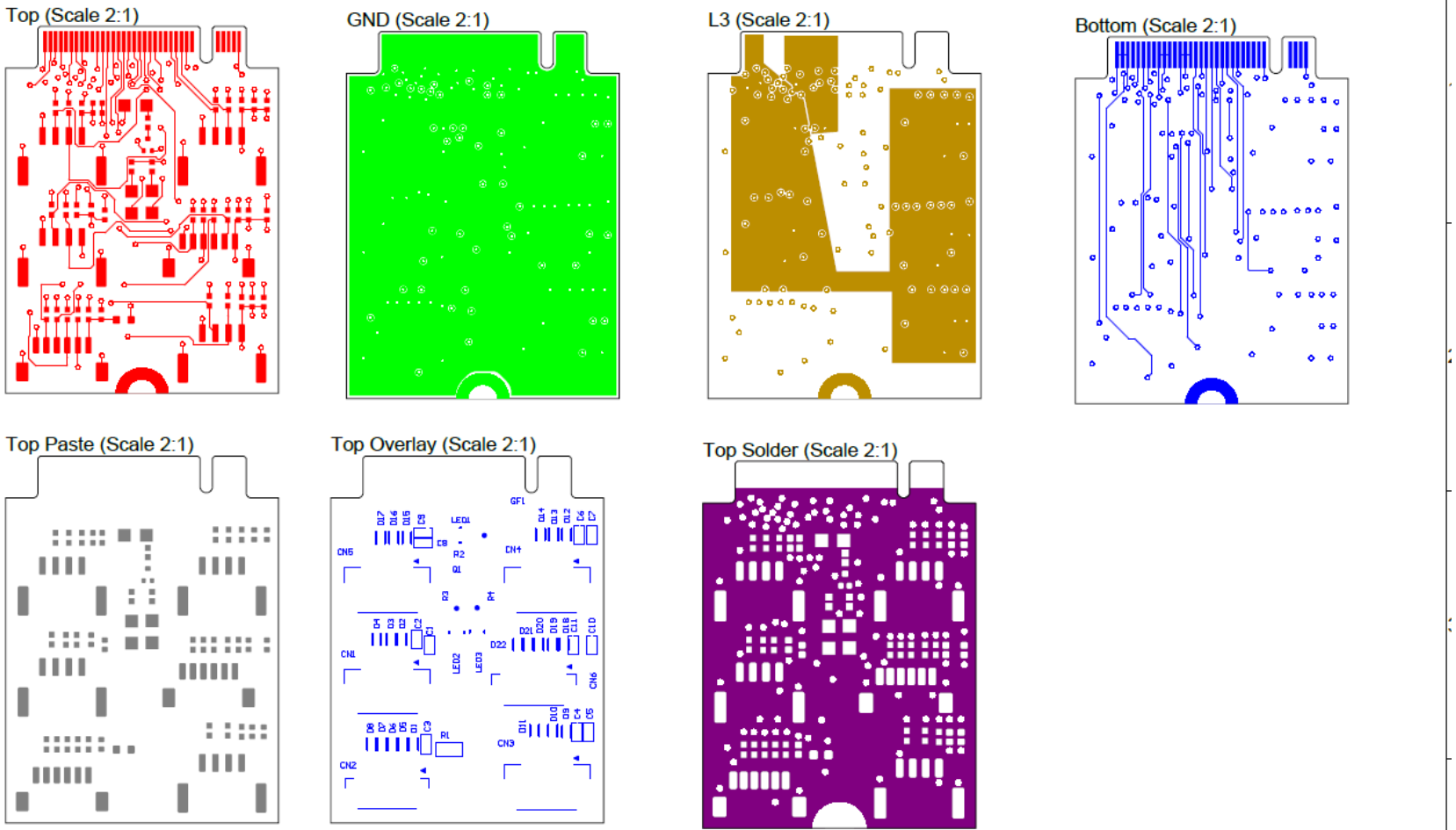
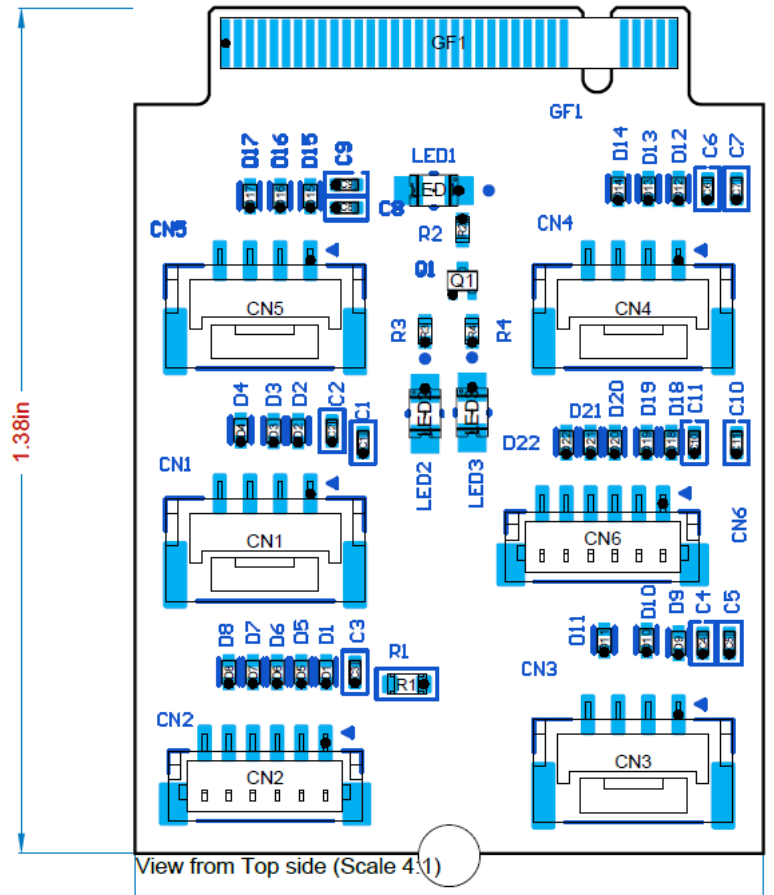


Table FABRICATION DRAWINGS

PROJECT	DRAWN BY	DATE
DRONE INTERFACE	AMARJIT BHATIA	FEB 23 2025

Interface board Assembly Drawing



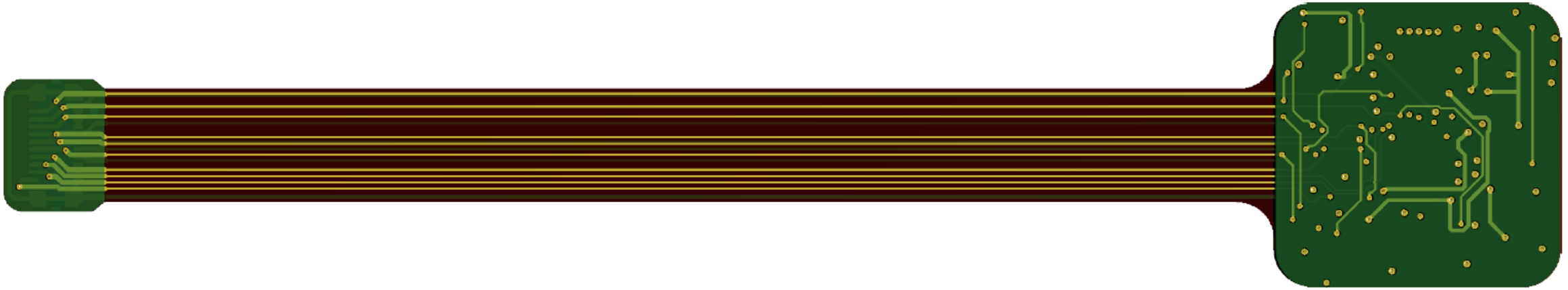
Table

PROJECT	DRAWN BY	DATE
DRONE INTERFACE PCA	AMARJIT BHATIA	FEB 23 2025

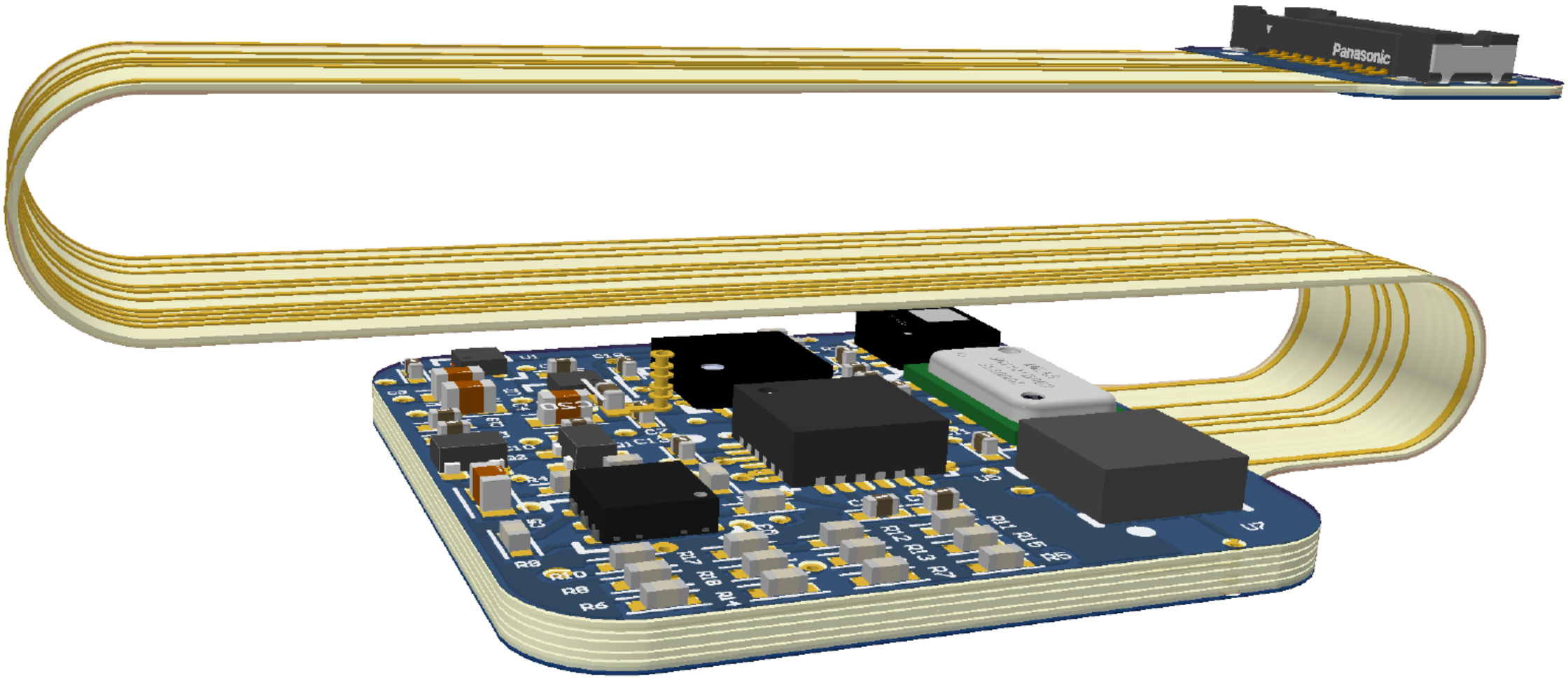
Rigid Flex controller interface board

Realistic View

Realistic View

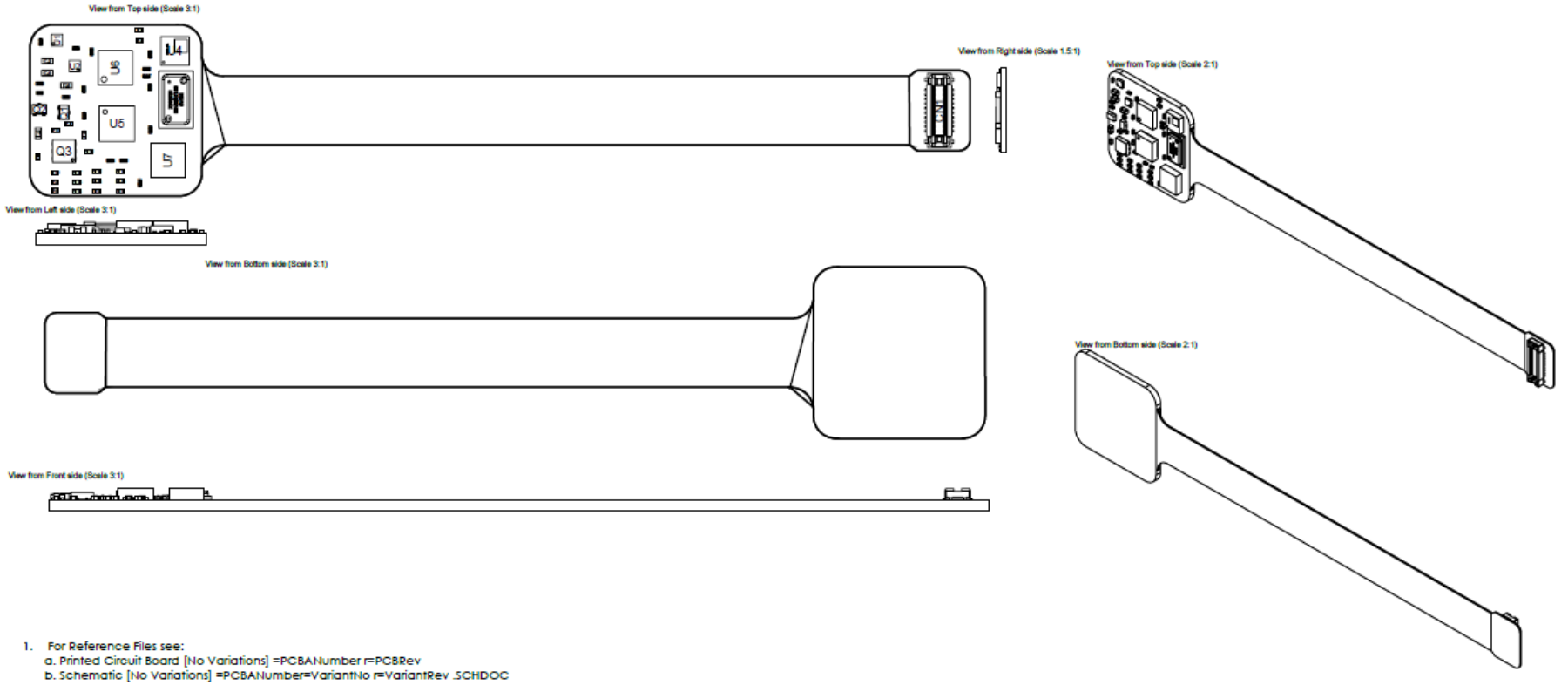


Rigid Flex controller interface board



Rigid Flex controller interface board Assembly

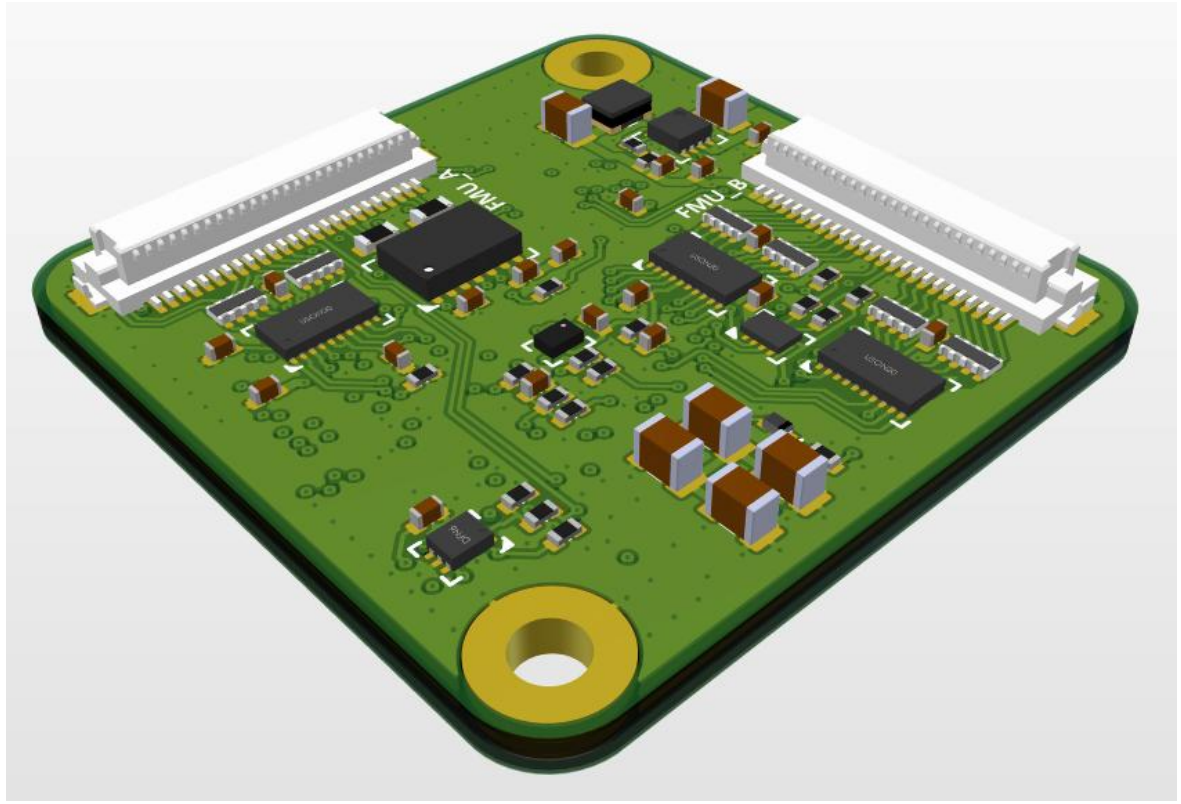
REV	DESCRIPTION	ECO #	DATE
A.00	Project 2# Rigid Flex Cable	ECOXX0	3/16/25

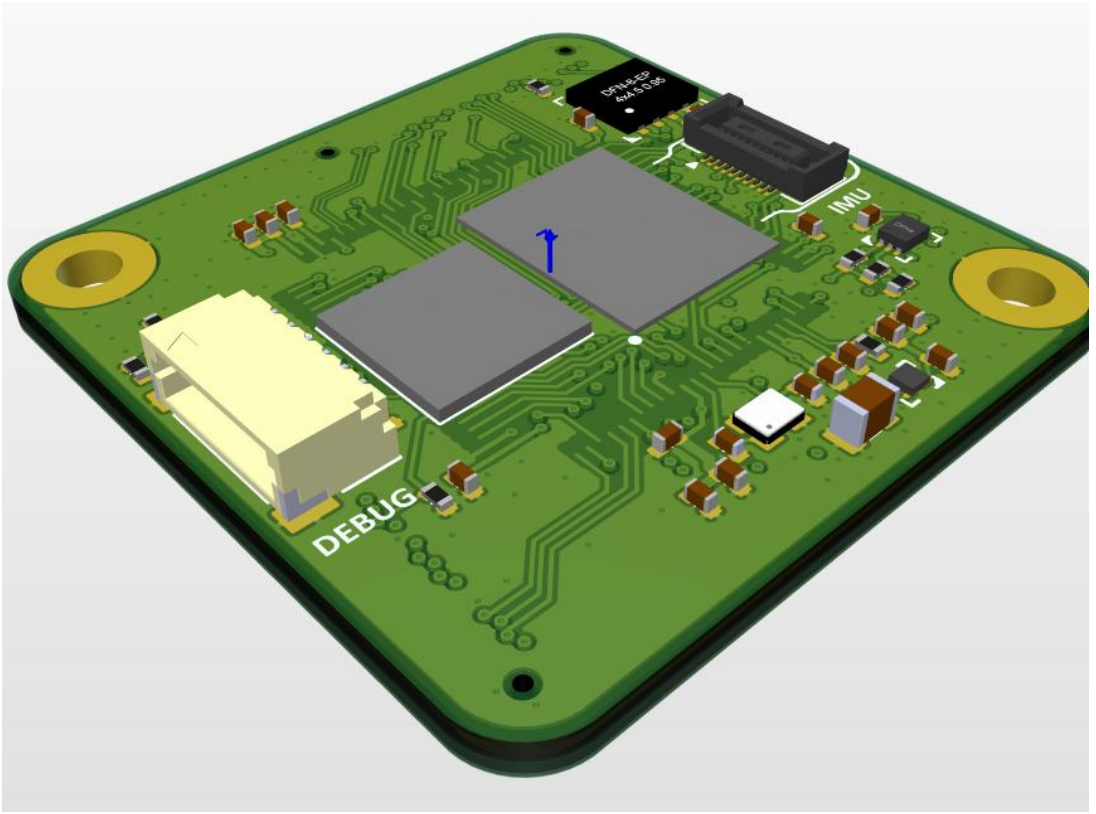


1. For Reference Files see:
   a. Printed Circuit Board [No Variations] =PCBANumber r=PCBRev
   b. Schematic [No Variations] =PCBANumber=VariantNo r=VariantRev .SCHDOC
   c. Part List: [No Variations] =PCBANumber=VariantNo r=VariantRev _BOM.XLS
2. Wear Ground ESD Wrsit Strap before handling PCB Assembly
3. To Comply with ROHS Legislation 2002/95/EC
4. PCB Manufacturing methods must comply with J-STD-001 Class 2
5. Apply V-Score only when the PCB is panelized
6. Dimension are for reference only, use Gerber Data for Fabrication
7. This PCB requires Program and Test
8. <COMPANY> P/N =PCBNumber r=PCBRev Is the Unpopulated PCB

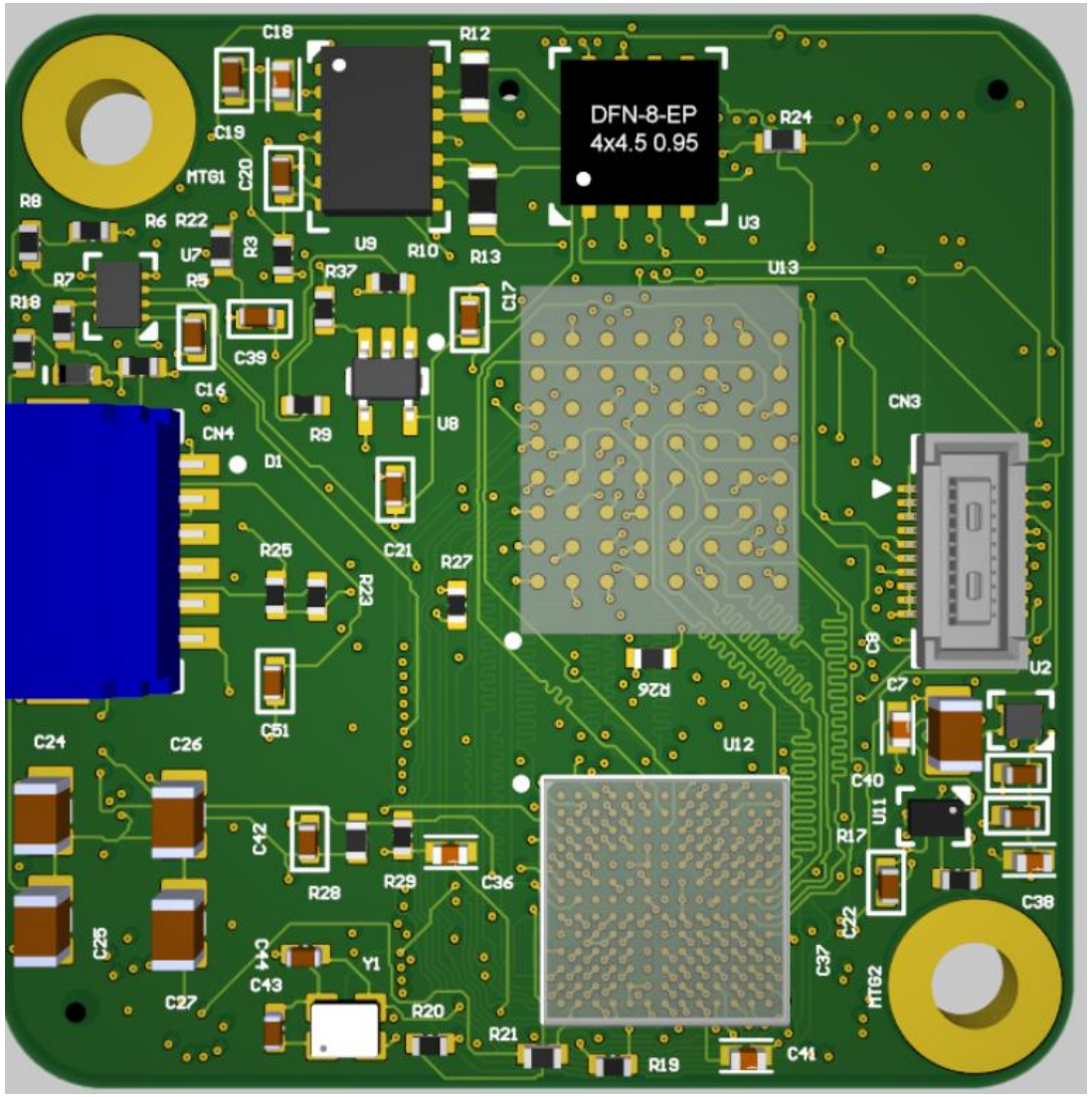
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES : .XX ± .01 ANGLES ± 2° .XXX ± .005 FRACTIONS ± 1/64 SURFACE FINISH 63 OR BETTER DEBURR & BREAK ALL SHARP EDGES DRAWING PER ASME-Y14.5-1994	CONTRACT NO.		Palomar College 1140 West Mission Road San Marcos, California 92069 (760) 744-1150
	DRAWN BY Amarjit Bhatia	3/16/25	ASSEMBLY DRAWING =title
	CHECKED BY Amarjit Bhatia	3/16/25	
MATERIAL	RESP ENGR Amarjit Bhatia	3/16/25	SIZE B / CODE IDENT 0BJZ8 / DWG NO. =DocumentNumber / REV
FINISH	DESIGN ACTIVITY APPROVAL		SCALE NONE / WEIGHT NA / SHEET 1 OF 2

Master controller Board

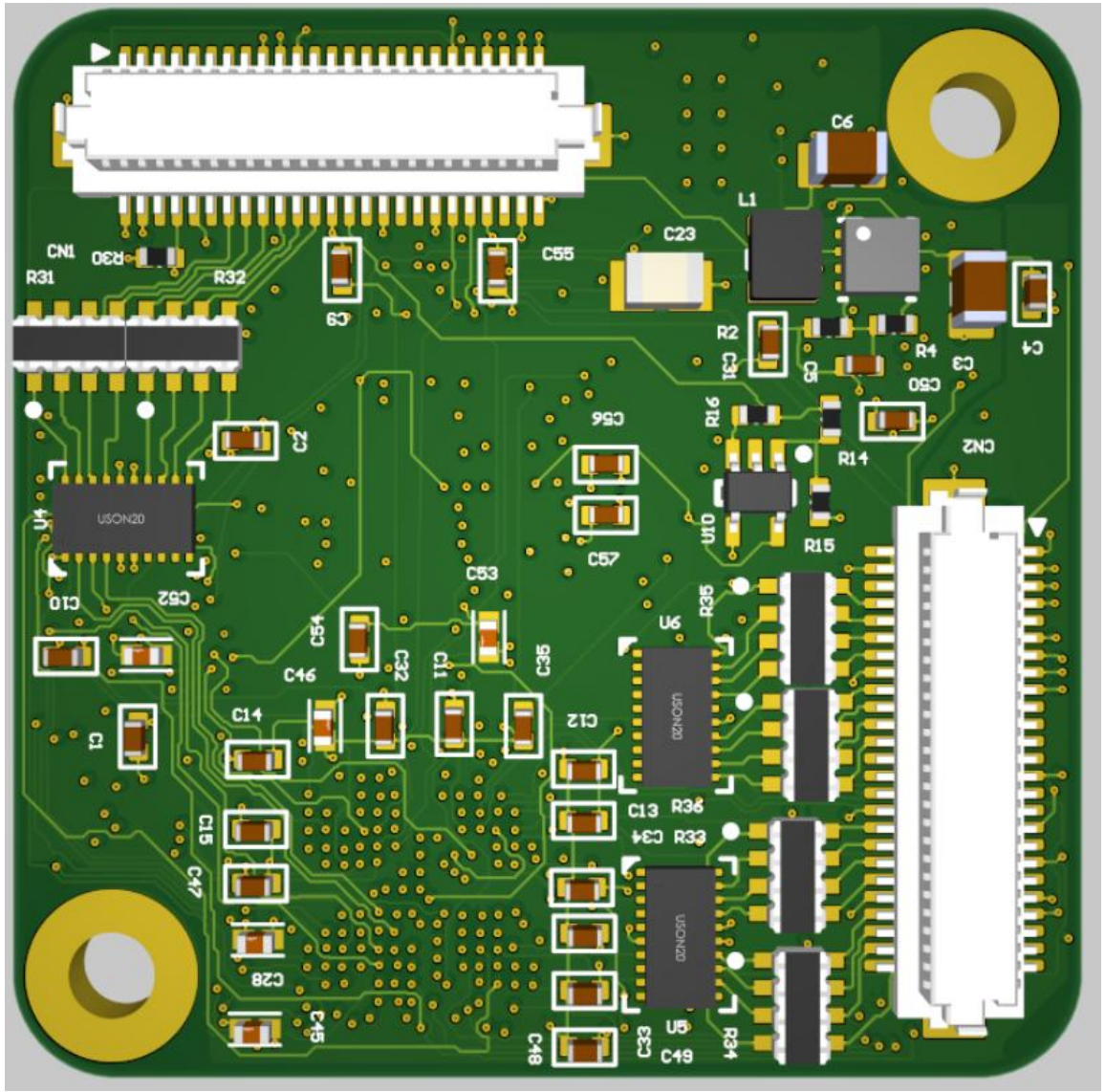




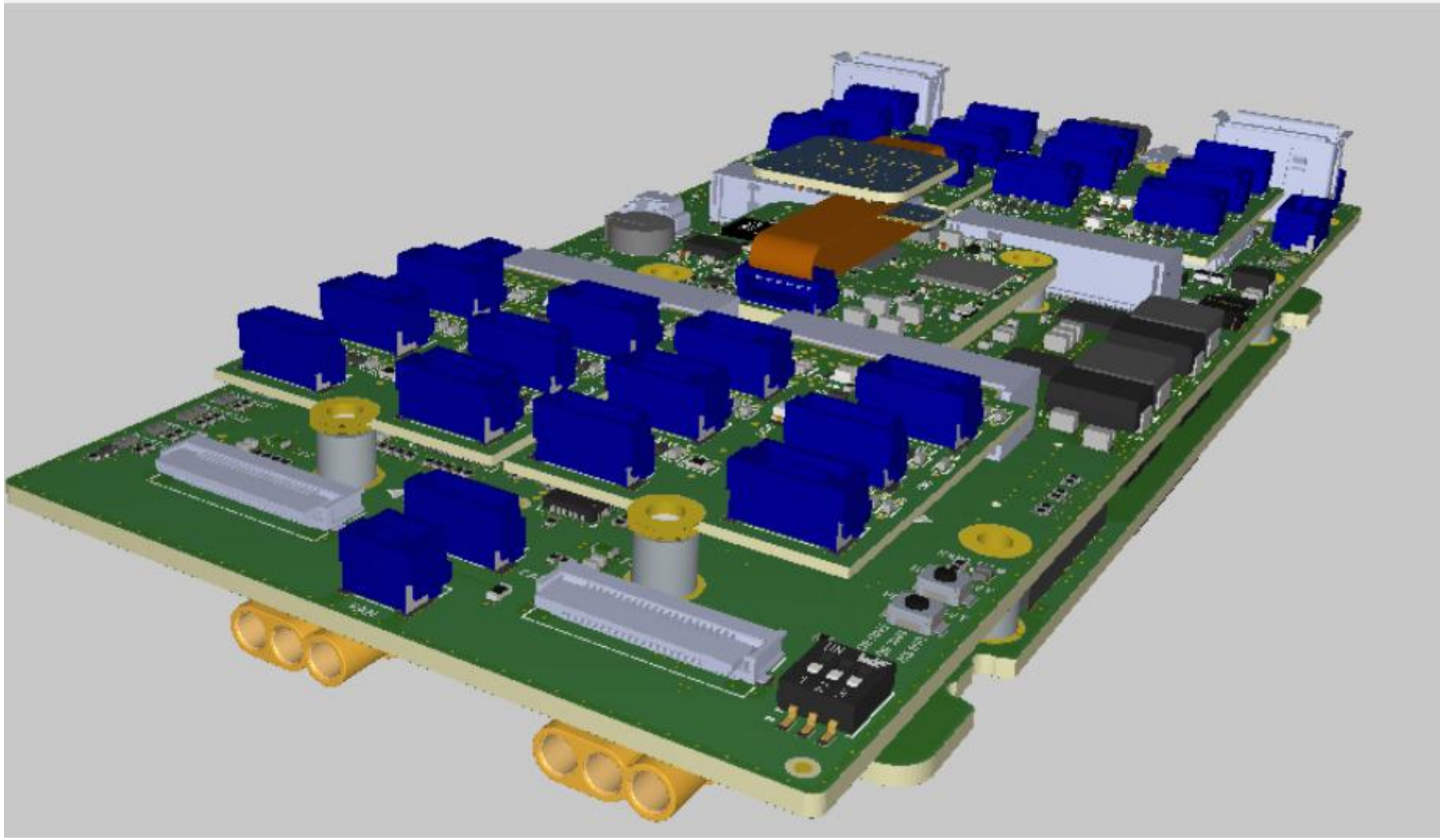
Master controller Board Top layer assembly



Master controller Board Bottom layer assembly

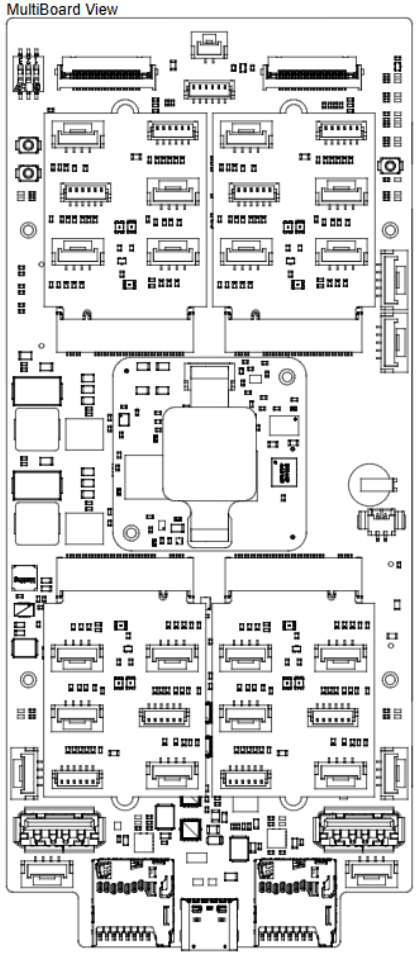


Multi-board Controller assembly

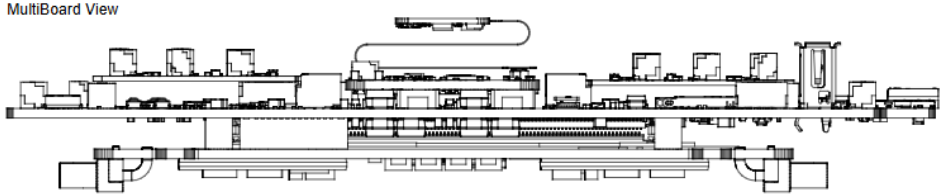


Multi-board Controller assembly Drawing

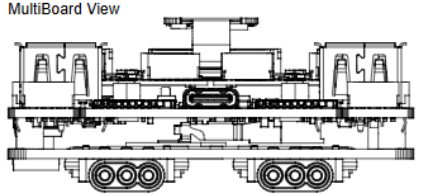
MultiBoard View



MultiBoard View



MultiBoard View



MultiBoard View