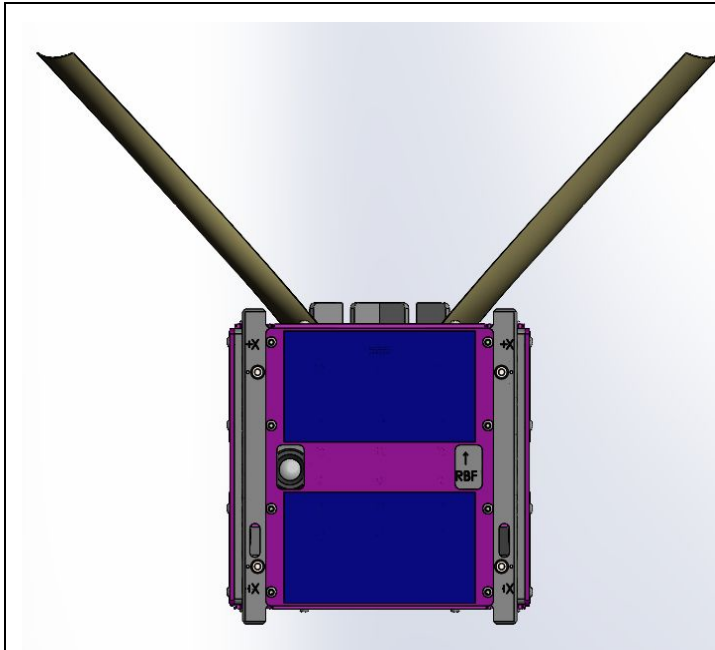


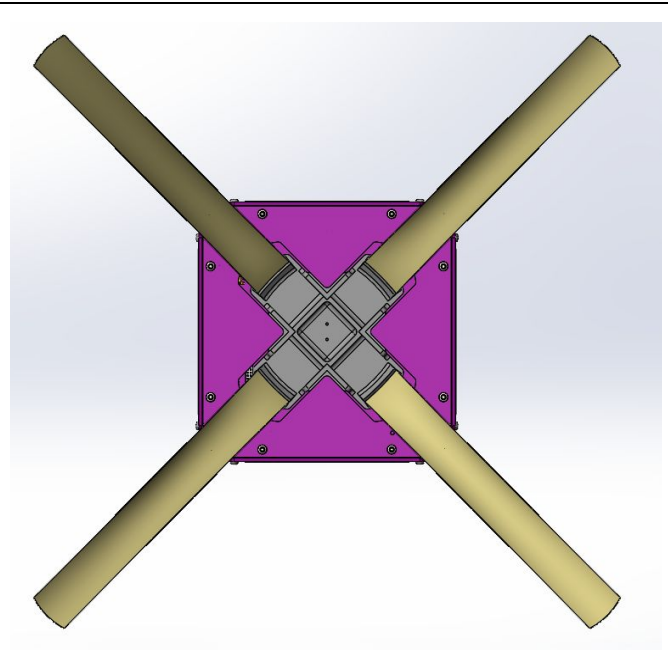
# OreSat0 Structure

2020-08-07

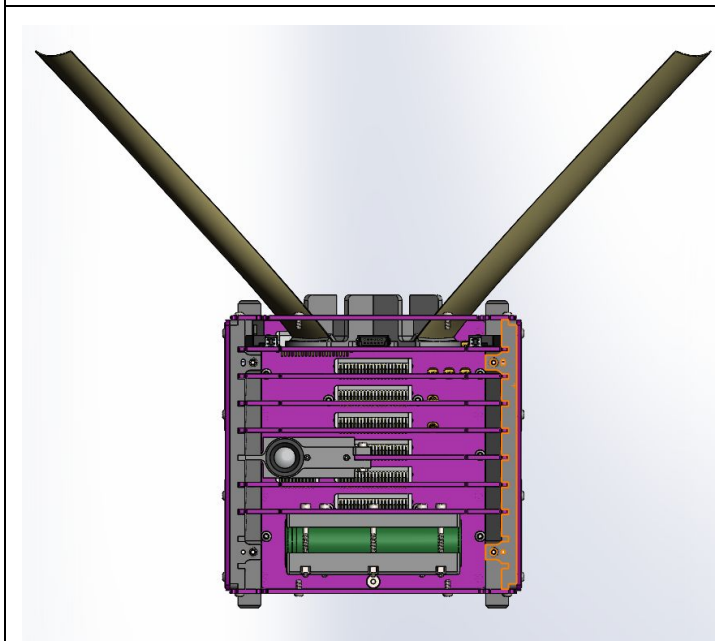
OreSat0 is a 1U CubeSat that meets the requirements of the CubeSat Developers Specification (CDS) Rev 13. It has a deployable omnidirectional tri-band (U, L, and S) turnstile antenna on the +Z face that are released using monofilament “melt” lines. The main structure is made of 6061 Aluminum that is type-2 anodized (dar gray); Solar PCBs, end caps, and backplane are all FR4 2 and 4 layer PCBs (purple). For more information, please see <https://github.com/oresat/oresat-structure>



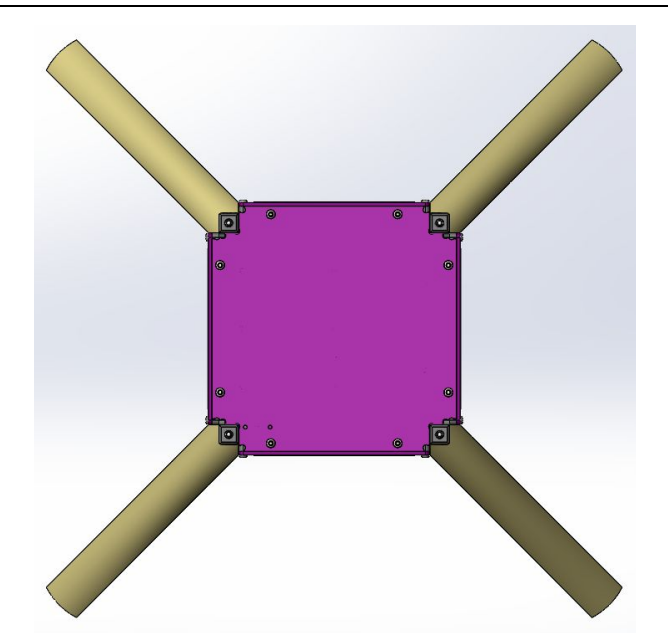
+X (front) view



+Z (top) view showing tri-band turnstile



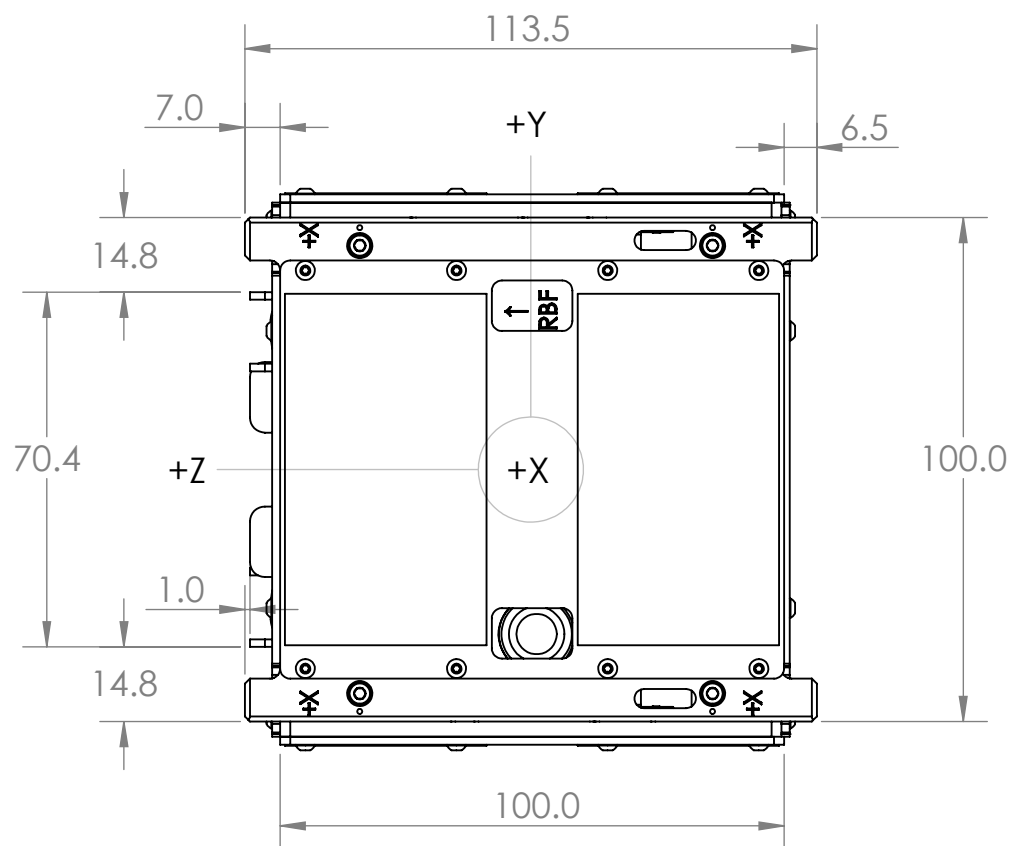
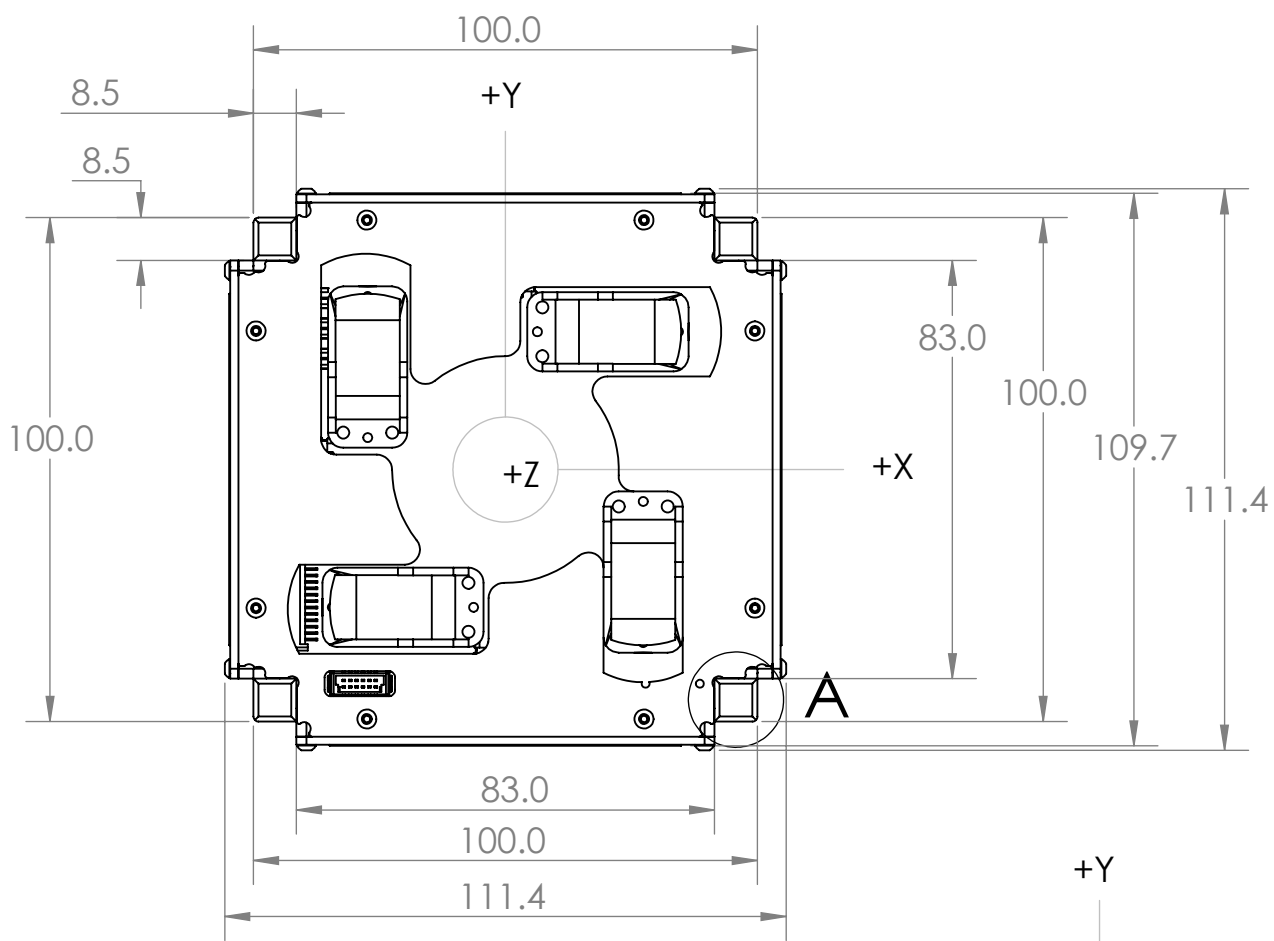
+x (front) view showing card and backplane



-Z (bottom) view

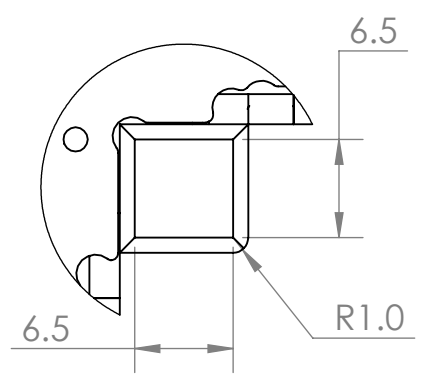
4 3 2 1

B

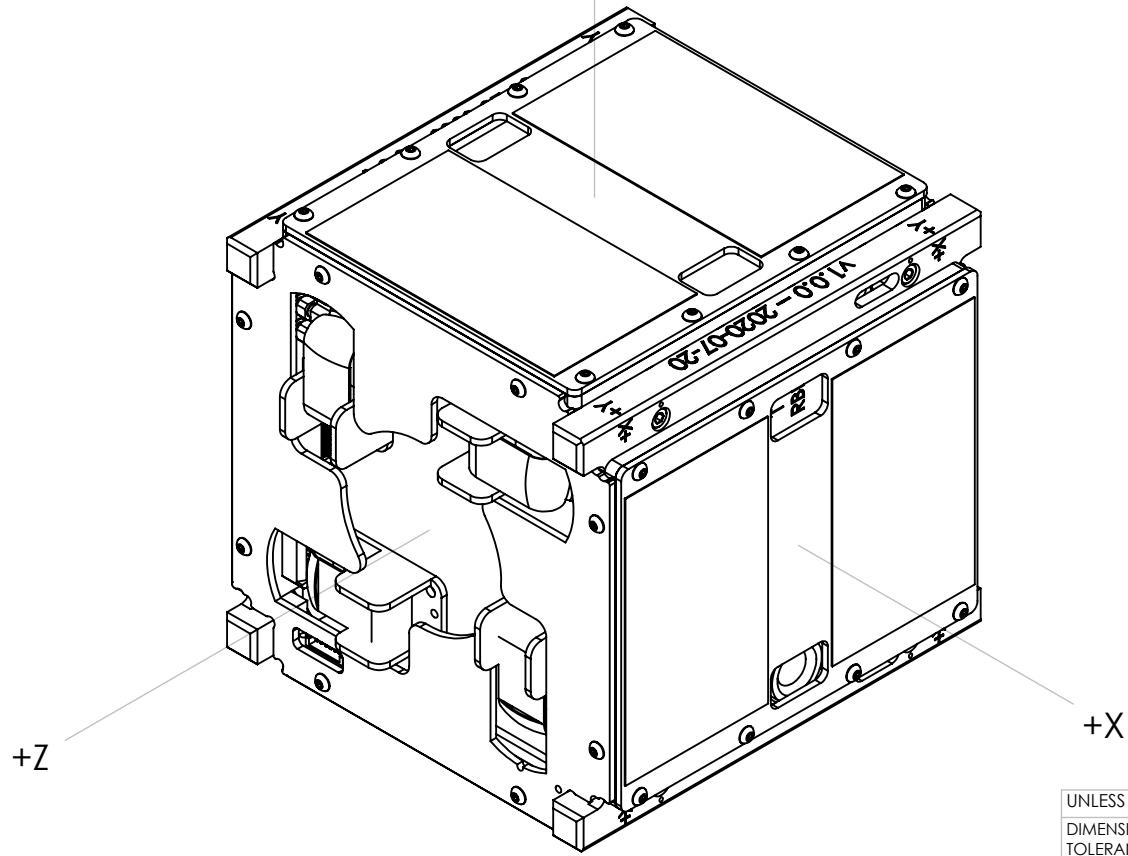


B

A




DETAIL A  
SCALE 2 : 1



A

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	INITIAL RELEASE	7/26/2020	EG

	DRAWN	NAME	DATE	Description: ORESATO V1.0.0 2020-07-20
	CHECKED	EMILIO GIZZI	7/26/2020	
	ENG APPR.		7/26/2020	
	MFG APPR.			
COMMENTS:				DWG. NO. OreSat0_CDS
				REV A SIZE B SCALE: 2:3 SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MILLIMETER  
TOLERANCES:  
ONE PLACE DECIMAL ±0.1  
TWO PLACE DECIMAL ±0.01  
MATERIAL -  
FINISH -  
WEIGHT (REF)  
DO NOT SCALE DRAWING