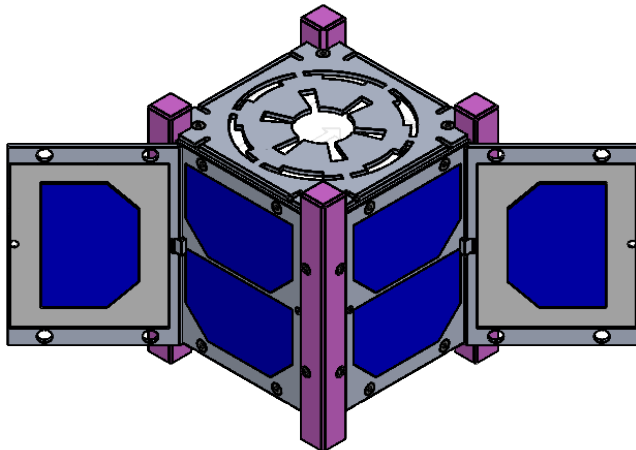


FRONT VIEW



REAR VIEW

ITEM NO.	DESCRIPTION	QTY.
1	PANEL, Z-DECK 1U	2
2	PANEL, X/Y DECK 1U	4
3	RAIL, GUIDE 1U	4
4	PANEL, SOLAR ARRAY RH	1
5	PANEL, SOLAR ARRAY LH	1
6	BATTERY, SINGLE CELL	6
7	CASE, 3-CELL BATTERY CELL	2
8	PLATE MOUNT, BATTERY MODULE	2
9	316 STAINLESS STEEL HEX DRIVE FLAT HEAD SCREW	24
10	ALUMINUM MALE-FEMALE THREADED HEX STANDOFF	12
11	ALUMINUM UNTHREADED SPACER	8
12	MOUNTING PLATE, END	2
13	316 STAINLESS STEEL THIN HEX NUT	8
14	RASPBERRY PI 4	1
32	PLATE MOUNT, RASPBERRY PI 4	1
34	316 STAINLESS STEEL HEX DRIVE FLAT HEAD SCREW	4
35	FEMALE THREADED HEX STANDOFF	4
36	PANEL, CONNECTION ACCESS	1
37	PANEL, PAYLOAD	1
41	PANEL, EXTERNAL SOLAR ARRAY	2
42	316 STAINLESS STEEL HEX DRIVE FLAT HEAD SCREW	8
43	316 STAINLESS STEEL SOCKET HEAD SCREW	16
44	PIN, EXTERNAL PANEL HINGE	2

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM  
TOLERANCES:  
FRACTIONAL  $\pm$   
ANGULAR: MACH  $\pm$  BEND  $\pm$   
TWO PLACE DECIMAL  $\pm$   
THREE PLACE DECIMAL  $\pm$

INTERPRET GEOMETRIC  
TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

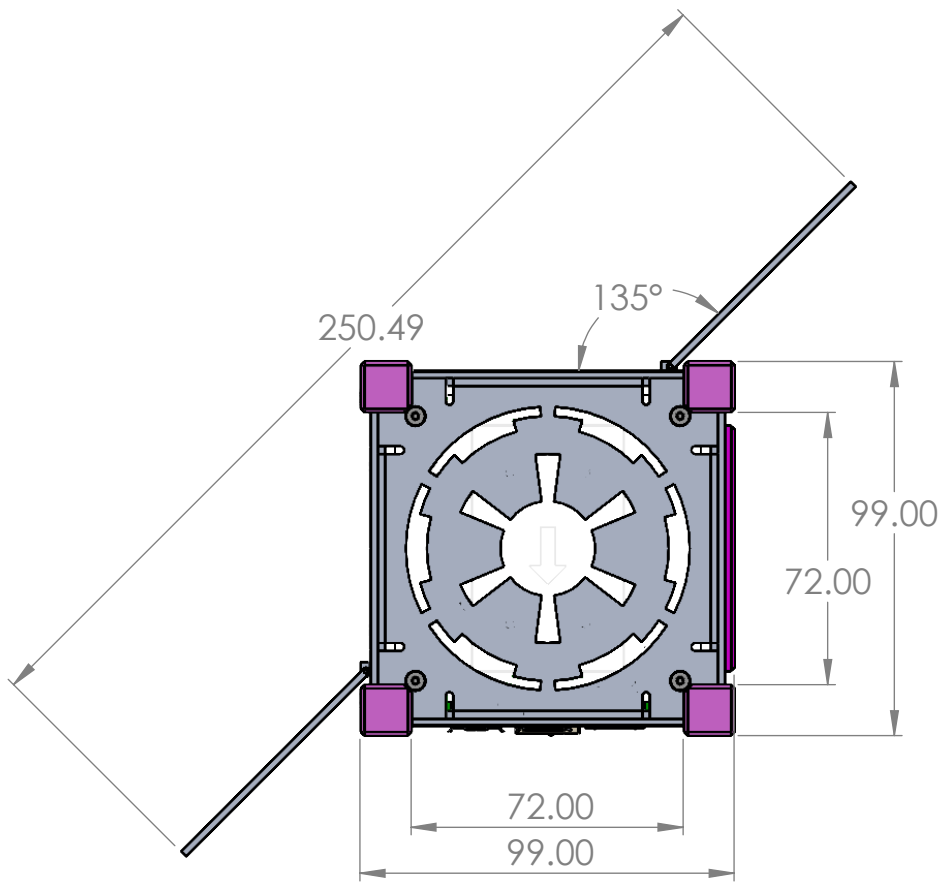
	NAME	DATE
DRAWN	S.CHU	11/23/2021
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		



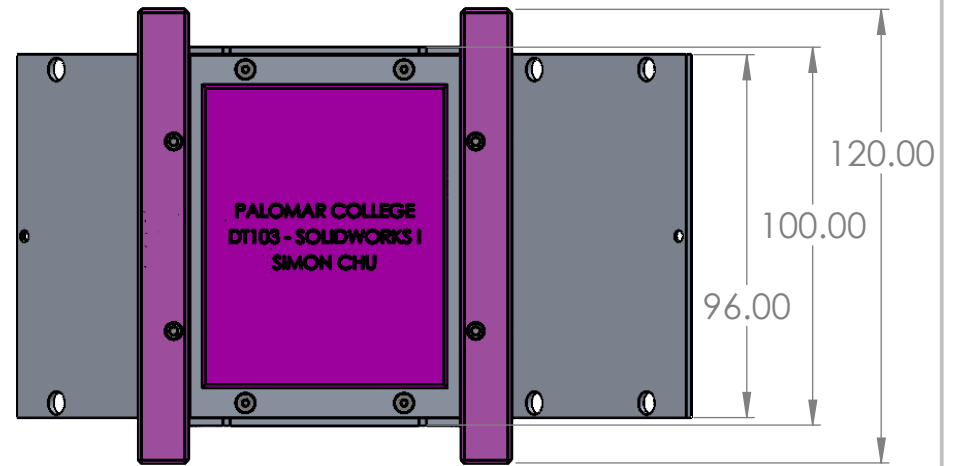
TITLE:

1U CUBESAT


SIZE	TASK NO.	REV
<b>A</b>	<b>FINAL</b>	
SCALE 1:1	WEIGHT: 1567.08g	SHEET 1 OF 12

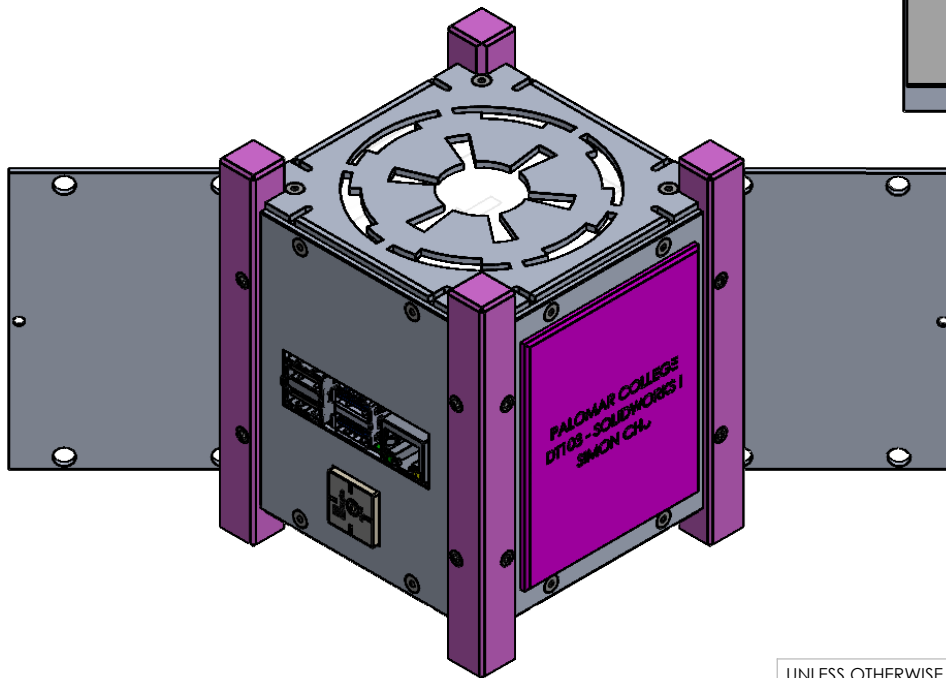


TOP VIEW

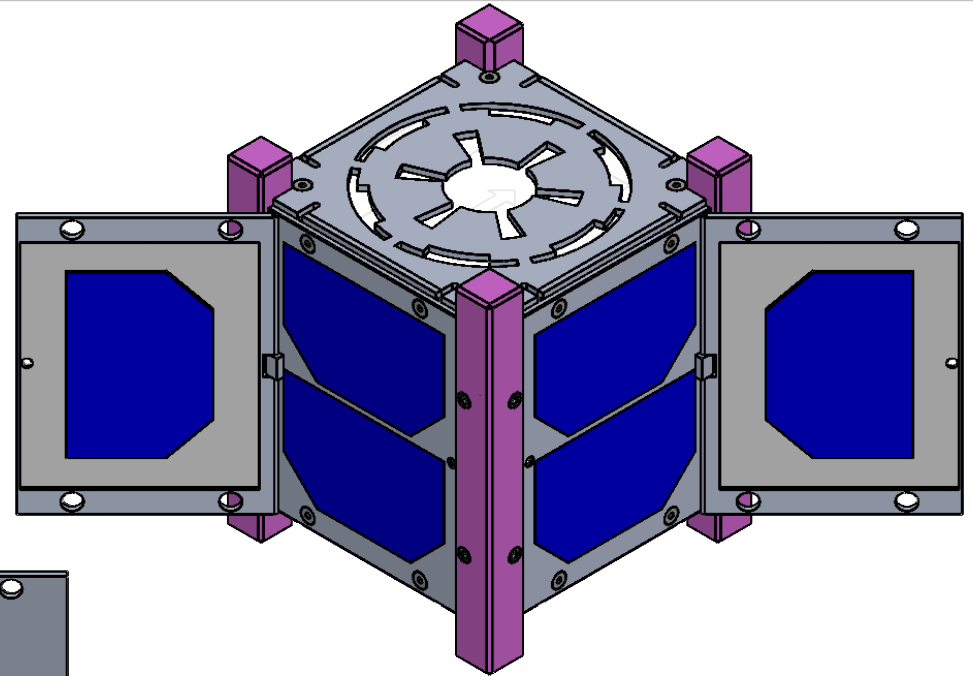


SIDE VIEW


UNLESS OTHERWISE SPECIFIED:		NAME	DATE		
DIMENSIONS ARE IN MM		DRAWN	S.CHU		
TOLERANCES:		CHECKED			
FRACTIONAL ±		ENG APPR.			
ANGULAR: MACH ± BEND ±		MFG APPR.			
TWO PLACE DECIMAL ±		Q.A.		TITLE:	
THREE PLACE DECIMAL ±		COMMENTS:		1U CUBESAT	
INTERPRET GEOMETRIC TOLERANCING PER:				SIZE	TASK NO.
MATERIAL				<b>A</b>	<b>FINAL</b>
FINISH					REV
DO NOT SCALE DRAWING				SCALE 1:1	WEIGHT: 1567.08g SHEET 2 OF 12

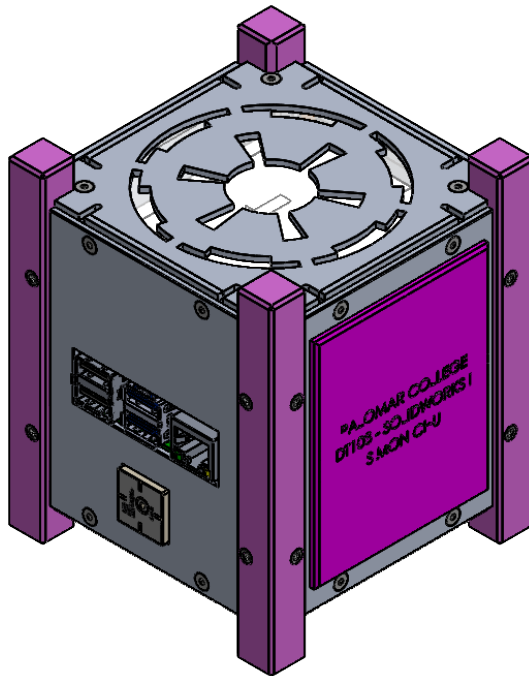


DEPLOYED, 1U CUBESAT  
FORWARD VIEW

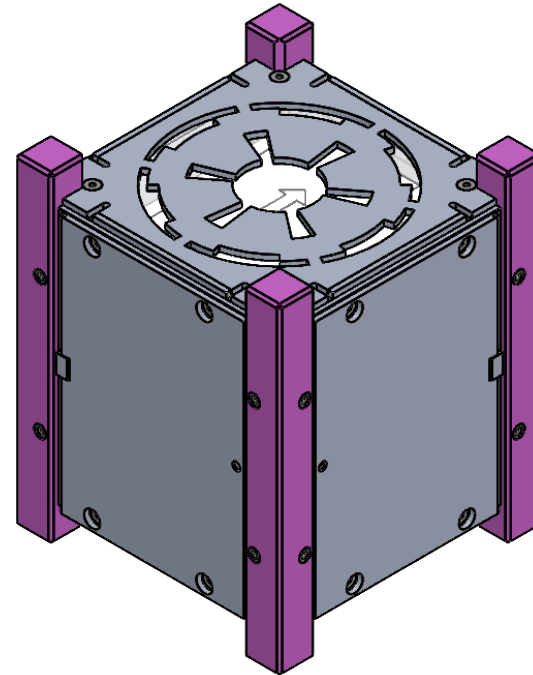


DEPLOYED, 1U CUBESAT  
REAR VIEW


UNLESS OTHERWISE SPECIFIED:		NAME	DATE	<div></div>		
DIMENSIONS ARE IN MM TOLERANCES: FRACTIONAL ± ANGULAR: MACH ±    BEND ± TWO PLACE DECIMAL    ± THREE PLACE DECIMAL    ±	DRAWN	S.CHU	10/17/2021	TITLE:  1U CUBESAT		
	CHECKED					
	ENG APPR.					
	MFG APPR.					
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SIZE    TASK NO.    REV  A    FINAL		
MATERIAL	COMMENTS:					
FINISH				SCALE 1:1    WEIGHT: 1567.08g    SHEET 3 OF 12		
DO NOT SCALE DRAWING						

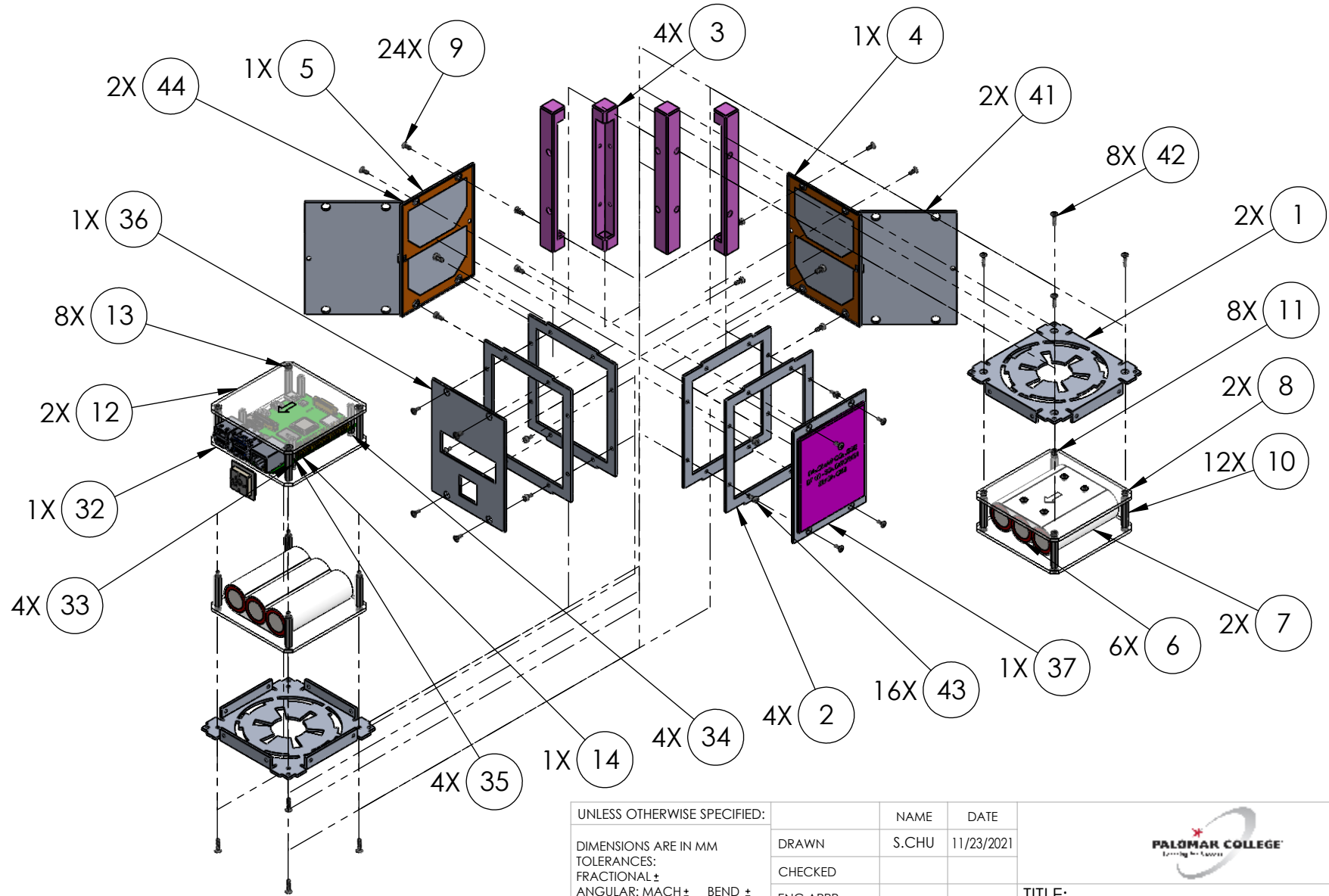


STOWED, 1U CUBESAT  
FORWARD VIEW



STOWED, 1U CUBESAT  
REAR VIEW

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	 <b>TITLE:</b> <h1>1U CUBESAT</h1>	
DIMENSIONS ARE IN MM		DRAWN	S.CHU		
TOLERANCES:		CHECKED			
FRACTIONAL ±		ENG APPR.			
ANGULAR: MACH ± BEND ±		MFG APPR.			
TWO PLACE DECIMAL ±		Q.A.		<b>SIZE</b> <b>TASK NO.</b> <b>REV</b> <b>A</b> <b>FINAL</b>	
THREE PLACE DECIMAL ±		COMMENTS:			
INTERPRET GEOMETRIC TOLERANCING PER:					
MATERIAL				<b>SCALE 1:1</b> <b>WEIGHT: 1567.08g</b> <b>SHEET 4 OF 12</b>	
FINISH					
DO NOT SCALE DRAWING					



UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM  
TOLERANCES:  
FRACTIONAL ±  
ANGULAR: MACH ± BEND ±  
TWO PLACE DECIMAL ±  
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC  
TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

DRAWN

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:

NAME

S.CHU

DATE

11/23/2021

TITLE:

1U CUBESAT

SIZE

A

TASK NO.

FINAL

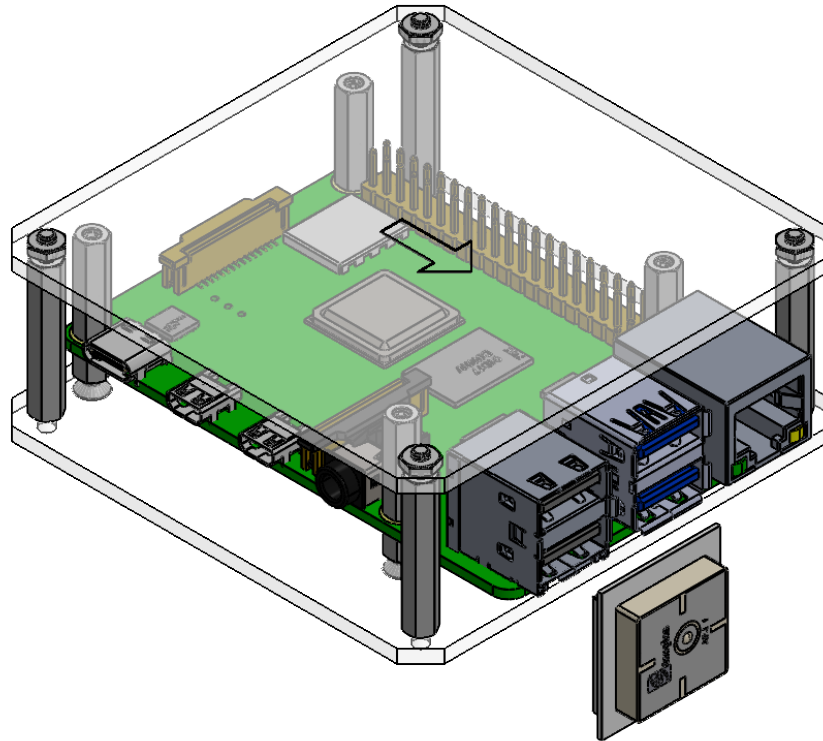
REV

SCALE 1:1


WEIGHT: 1567.08g

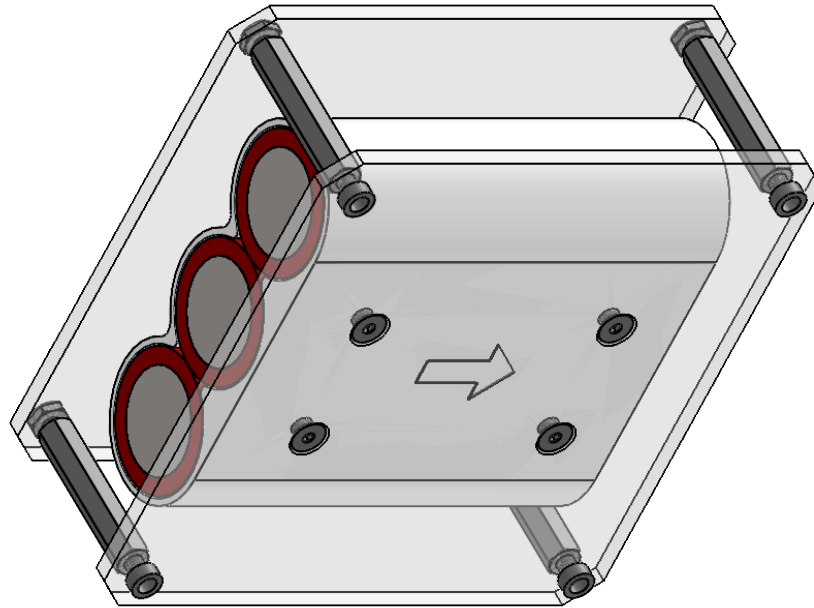
SHEET 5 OF 12



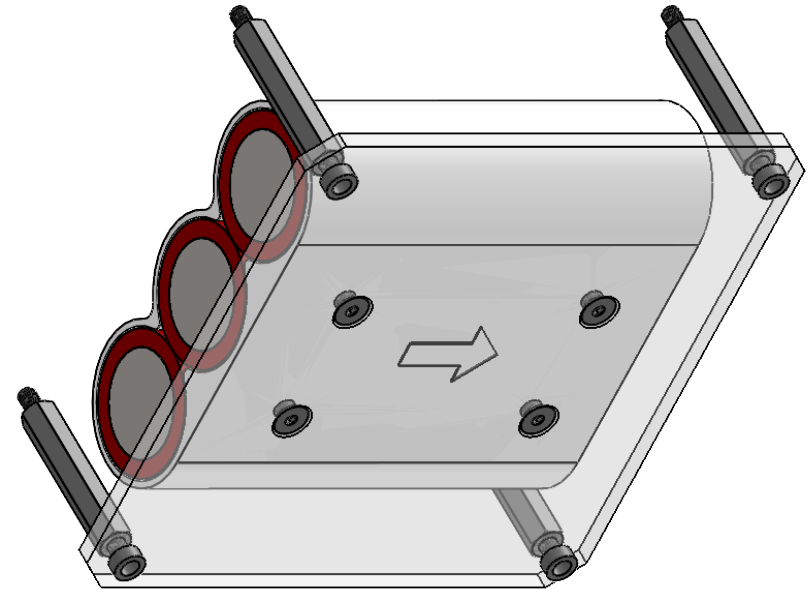


MODULE, RASPBERRY PI 4 + GPS RECIEVER


UNLESS OTHERWISE SPECIFIED:		NAME	DATE		
DIMENSIONS ARE IN MM TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	S.CHU	11/23/2021		
	CHECKED				
	ENG APPR.				
	MFG APPR.				
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			TITLE:	
MATERIAL	COMMENTS:			1U CUBESAT	
FINISH				SIZE	TASK NO.
DO NOT SCALE DRAWING				<b>A</b>	<b>FINAL</b>
				SCALE 1:1	WEIGHT: 1567.08g
					SHEET 6 OF 12

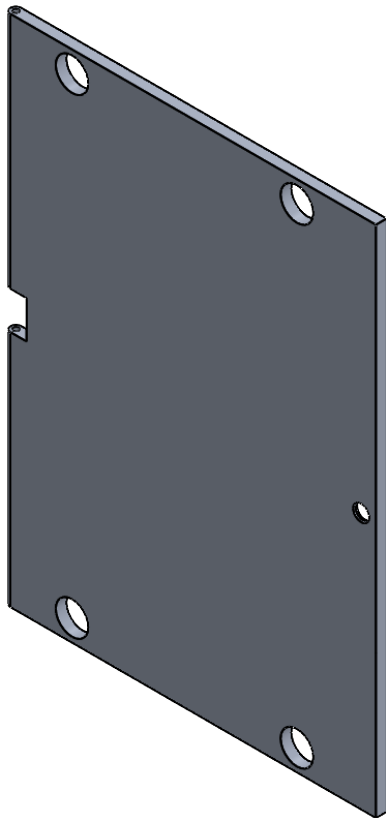


MODULE, BATTERY PACK  
STANDALONE

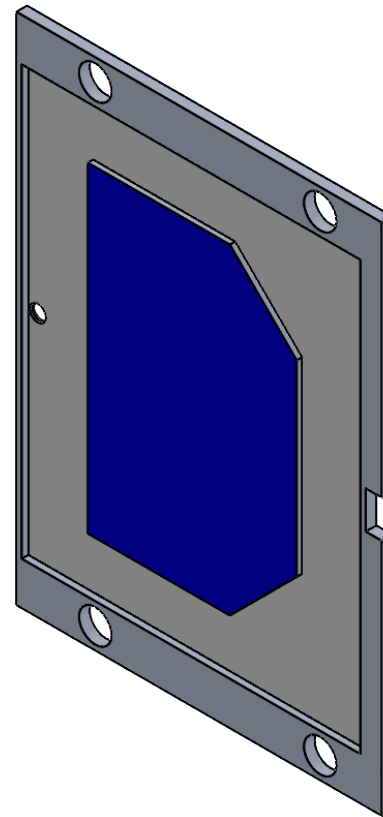


MODULE, BATTERY PACK


UNLESS OTHERWISE SPECIFIED:		NAME	DATE		
DIMENSIONS ARE IN MM		DRAWN	S.CHU		
TOLERANCES:		CHECKED			
FRACTIONAL $\pm$		ENG APPR.			
ANGULAR: MACH $\pm$ BEND $\pm$		MFG APPR.			
TWO PLACE DECIMAL $\pm$		Q.A.		TITLE:	
THREE PLACE DECIMAL $\pm$		COMMENTS:		1U CUBESAT	
INTERPRET GEOMETRIC TOLERANCING PER:				SIZE	TASK NO.
MATERIAL				<b>A</b>	<b>FINAL</b>
FINISH					REV
DO NOT SCALE DRAWING				SCALE 1:1	WEIGHT: 1567.08g
					SHEET 7 OF 12



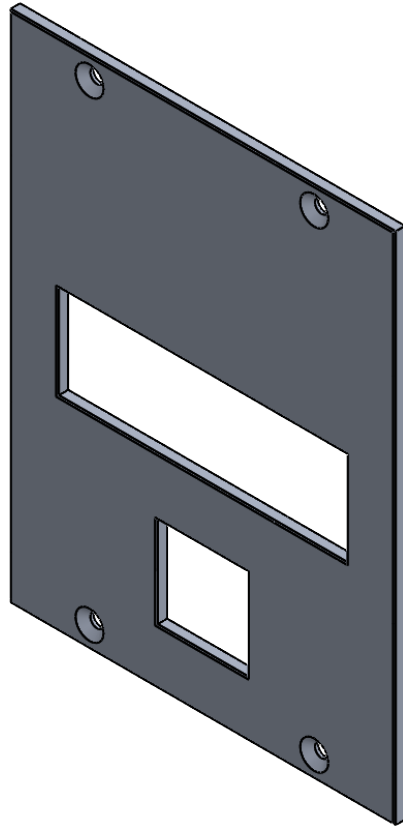
PANEL, SOLAR ARRAY  
EXTERNAL VIEW



PANEL, SOLAR ARRAY  
INTERNAL VIEW

UNLESS OTHERWISE SPECIFIED:		NAME	DATE				
DIMENSIONS ARE IN MM		DRAWN	S.CHU			11/23/2021	
TOLERANCES:		CHECKED					
FRACTIONAL $\pm$		ENG APPR.					
ANGULAR: MACH $\pm$ BEND $\pm$		MFG APPR.					
TWO PLACE DECIMAL $\pm$		Q.A.			<b>TITLE:</b> <h1>1U CUBESAT</h1>		
THREE PLACE DECIMAL $\pm$		COMMENTS:		<b>SIZE</b> <h1>A</h1>		<b>TASK NO.</b> <h1>FINAL</h1>	<b>REV</b>
INTERPRET GEOMETRIC TOLERANCING PER:							
MATERIAL					SCALE 1:1	WEIGHT: 1567.08g	SHEET 8 OF 12
FINISH							
DO NOT SCALE DRAWING							




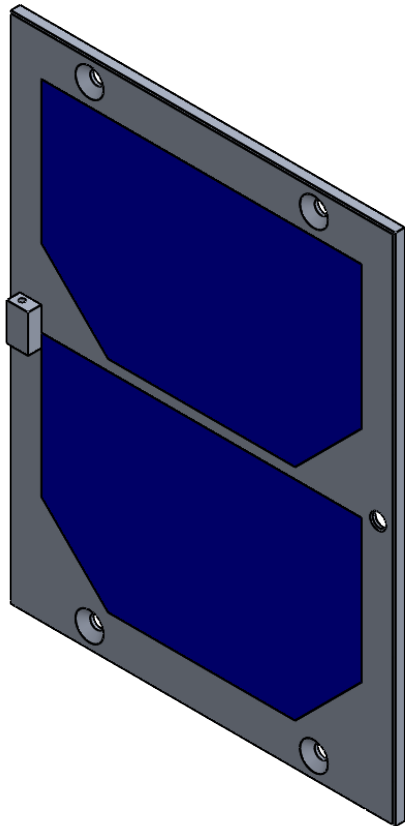


PANEL, EXTERNAL CONNECTION

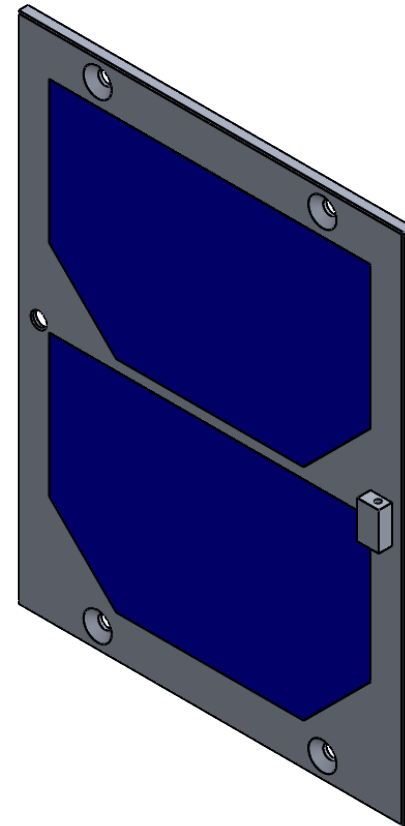


PANEL, PAYLOAD


UNLESS OTHERWISE SPECIFIED:		NAME	DATE	<div></div>		
DIMENSIONS ARE IN MM TOLERANCES: FRACTIONAL ± ANGULAR: MACH ±    BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	S.CHU	11/23/2021	TITLE:  <div>1U CUBESAT</div>		
	CHECKED					
	ENG APPR.					
	MFG APPR.					
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SIZE    TASK NO.    REV <div>A    FINAL    </div>		
MATERIAL	COMMENTS:					
FINISH						
DO NOT SCALE DRAWING						
				SCALE 1:1	WEIGHT: 1567.08g	SHEET 9 OF 12

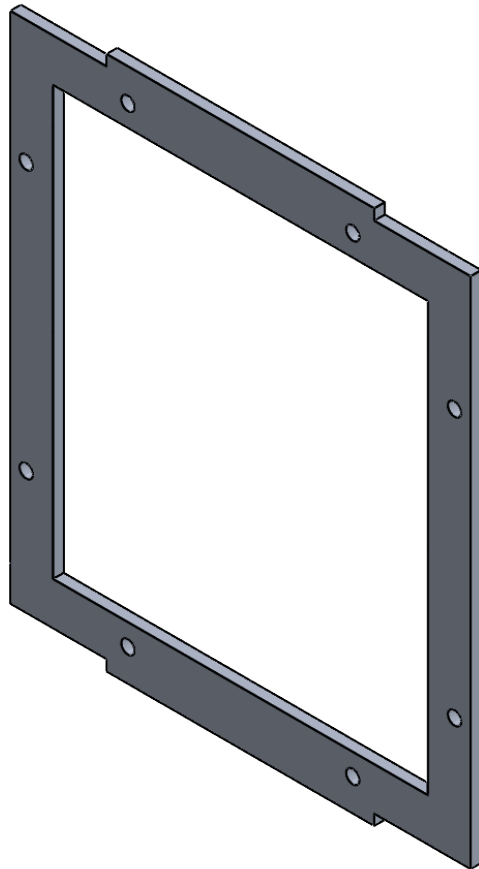


PANEL, SOLAR PANEL RH

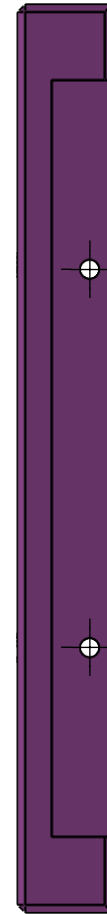


PANEL, SOLAR PANEL LH


UNLESS OTHERWISE SPECIFIED:		NAME	DATE				
DIMENSIONS ARE IN MM		DRAWN	S.CHU			11/23/2021	
TOLERANCES:		CHECKED					
FRACTIONAL $\pm$		ENG APPR.					
ANGULAR: MACH $\pm$ BEND $\pm$		MFG APPR.					
TWO PLACE DECIMAL $\pm$		Q.A.			<b>TITLE:</b> <h1>1U CUBESAT</h1>		
THREE PLACE DECIMAL $\pm$		COMMENTS:		<b>SIZE</b> <h1>A</h1>		<b>TASK NO.</b> <h1>FINAL</h1>	<b>REV</b>
INTERPRET GEOMETRIC TOLERANCING PER:							
MATERIAL							
FINISH							
DO NOT SCALE DRAWING					SCALE 1:1	WEIGHT: 1567.08g	SHEET 10 OF 12

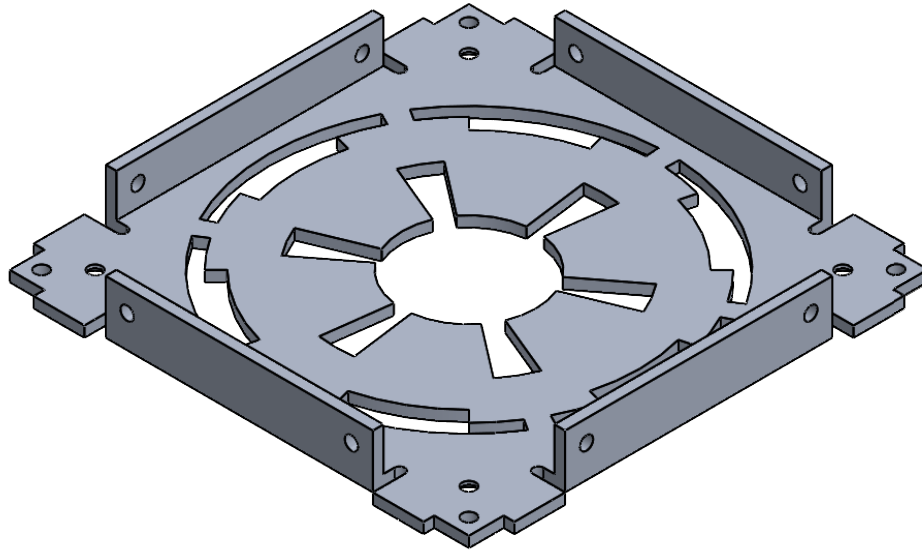


PANEL, X/Y DECK

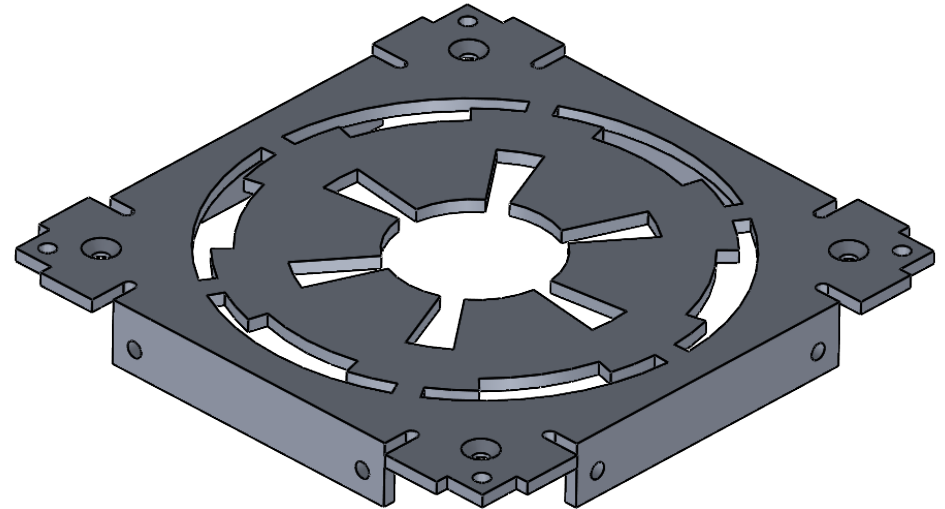


RAIL, GUIDE


UNLESS OTHERWISE SPECIFIED:		NAME	DATE	 <b>TITLE:</b> <h1>1U CUBESAT</h1>			
DIMENSIONS ARE IN MM		DRAWN	S.CHU			11/23/2021	
TOLERANCES:		CHECKED					
FRACTIONAL $\pm$		ENG APPR.					
ANGULAR: MACH $\pm$ BEND $\pm$		MFG APPR.					
TWO PLACE DECIMAL $\pm$		Q.A.			<b>SIZE</b> <b>A</b>	<b>TASK NO.</b> <b>FINAL</b>	<b>REV</b>
THREE PLACE DECIMAL $\pm$		COMMENTS:					
INTERPRET GEOMETRIC TOLERANCING PER:							
MATERIAL					SCALE 1:1		
FINISH					WEIGHT: 1567.08g		
DO NOT SCALE DRAWING					SHEET 11 OF 12		



PANEL, -Z DECK



PANEL, +Z DECK

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	<div></div>	
DIMENSIONS ARE IN MM TOLERANCES: FRACTIONAL ± ANGULAR: MACH ±    BEND ± TWO PLACE DECIMAL    ± THREE PLACE DECIMAL    ±	DRAWN	S.CHU	11/23/2021		
	CHECKED				
	ENG APPR.				
	MFG APPR.				
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			TITLE:  <div>1U CUBESAT</div>	
MATERIAL	COMMENTS:				
FINISH					
DO NOT SCALE DRAWING					
		SIZE	TASK NO.		REV
		A	FINAL		
		SCALE 1:1		WEIGHT: 1567.08g	SHEET 12 OF 12