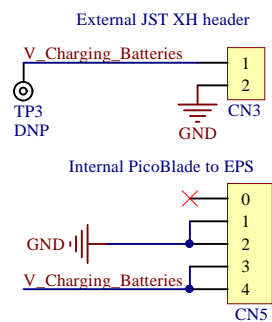
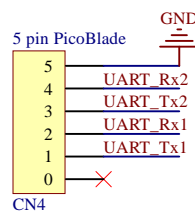


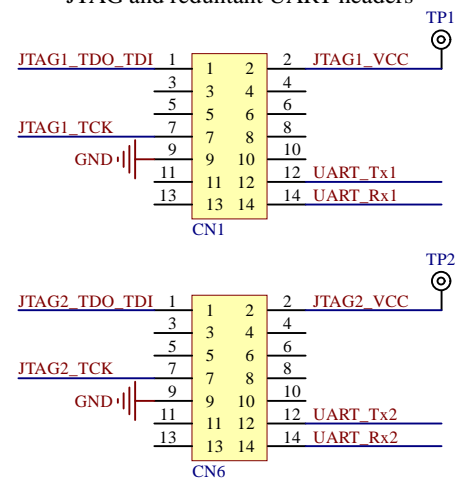
Battery charging headers



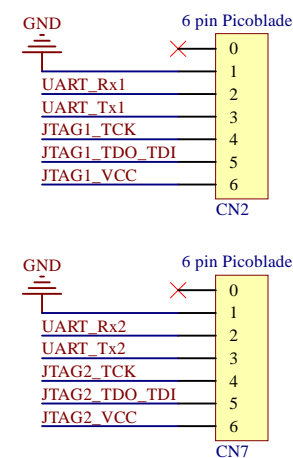
FT4232H UART signals



JTAG and redundant UART headers



Debug and programming interfaces



SpaceLab - Federal University of Santa Catarina

Project: *1_iip_charge.PrjPCB / [No Variations]*Title: *IIP N1 Charge Interfaces*Designed by: *Yan Castro de Azeredo*

Date: 6/29/2021

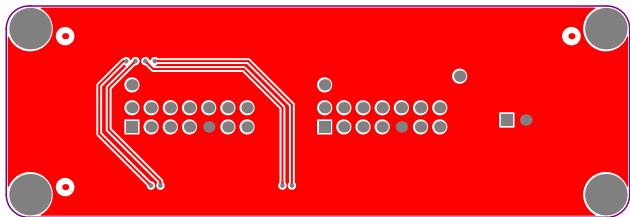
Revision: v2.0

Sheet 2 of 2

Project Code: *IIPN1*

Size: A4

Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.010mm	3.5	
3	Top Layer	Copper	0.035mm		
4	Dielectric 1	FR-4	1.500mm	4.2	
5	Bottom Layer	Copper	0.035mm		
6	Bottom Solder	Solder Resist	0.010mm	3.5	
7	Bottom Overlay				




Fabrication specifications:

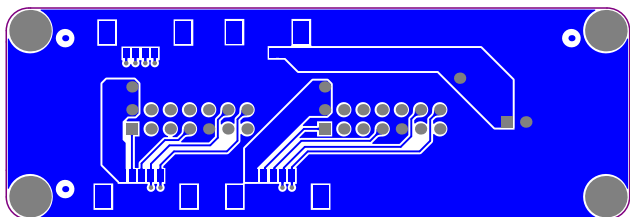
- Copper base: 1oz
- PCB Material: Prepeg FR4—Standard
- PCB Thickness: 1.6mm
- PCB Surface: HASL (with lead)
- Silkscreen Color: White (top and bottom)
- Soldermask Color: Green
- Vias: Force Complete Tenting
- Stack-up: Table herein included
- Special requirements: None

Assembly specifications:

- Solder composition: Include lead
- Fiducials: 3 top and 3 bottom available

SpaceLab - Federal University of Santa Catarina		
Project: Interstage Interface Panel N°1		
Layer: Top Layer Board Edge		
Designed by: Yan C. de Azeredo		Project Code: IIP1
Date: 6/29/2021	Version: v2.0	Size: A4

Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.010mm	3.5	
3	Top Layer	Copper	0.035mm		
4	Dielectric 1	FR-4	1.500mm	4.2	
5	Bottom Layer	Copper	0.035mm		
6	Bottom Solder	Solder Resist	0.010mm	3.5	
7	Bottom Overlay				




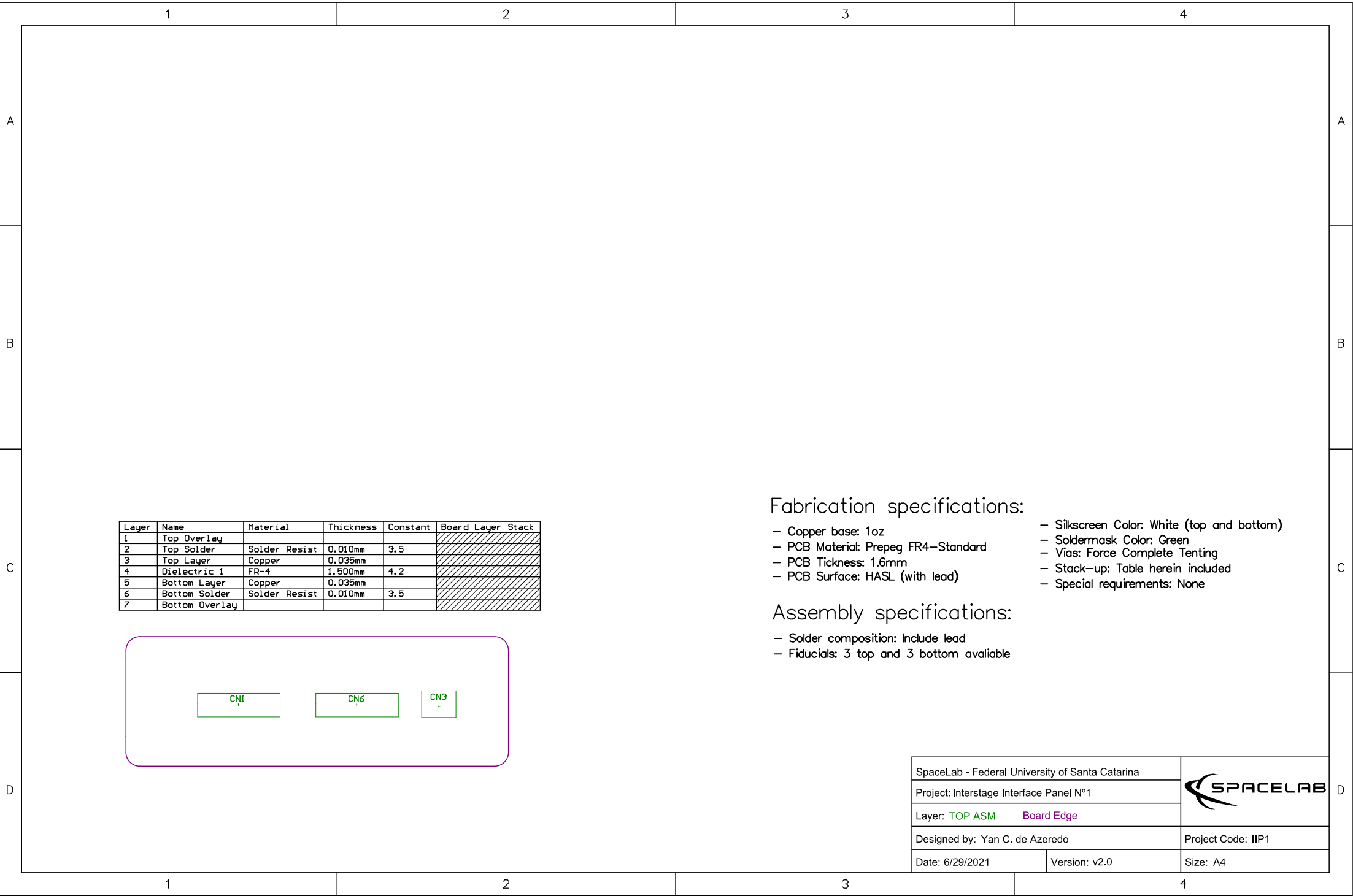
Fabrication specifications:

- Copper base: 1oz
- PCB Material: Prepeg FR4—Standard
- PCB Thickness: 1.6mm
- PCB Surface: HASL (with lead)
- Silkscreen Color: White (top and bottom)
- Soldermask Color: Green
- Vias: Force Complete Tenting
- Stack-up: Table herein included
- Special requirements: None

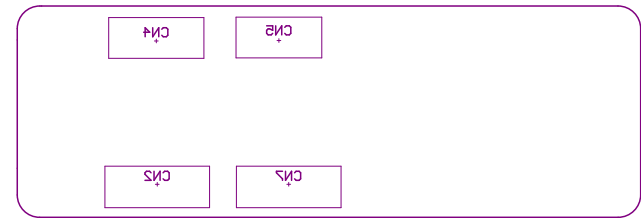
Assembly specifications:

- Solder composition: Include lead
- Fiducials: 3 top and 3 bottom available

SpaceLab - Federal University of Santa Catarina		
Project: Interstage Interface Panel N°1		
Layer: Bottom Layer Board Edge		
Designed by: Yan C. de Azeredo		Project Code: IIP1
Date: 6/29/2021	Version: v2.0	Size: A4



Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.010mm	3.5	
3	Top Layer	Copper	0.035mm		
4	Dielectric 1	FR-4	1.500mm	4.2	
5	Bottom Layer	Copper	0.035mm		
6	Bottom Solder	Solder Resist	0.010mm	3.5	
7	Bottom Overlay				




Fabrication specifications:

- Copper base: 1oz
 - PCB Material: Prepeg FR4—Standard
 - PCB Tickness: 1.6mm
 - PCB Surface: HASL (with lead)
- Silkscreen Color: White (top and bottom)
 - Soldermask Color: Green
 - Vias: Force Complete Tenting
 - Stack-up: Table herein included
 - Special requirements: None

Assembly specifications:

- Solder composition: Include lead
- Fiducials: 3 top and 3 bottom available

SpaceLab - Federal University of Santa Catarina		
Project: Interstage Interface Panel N°1		
Layer: BOTTOM ASM Board Edge		
Designed by: Yan C. de Azeredo		Project Code: IIP1
Date: 6/29/2021	Version: v2.0	Size: A4



Bill of Materials

Source Data From:	1_iip_charge.PrjPCB	
Project:	1_iip_charge.PrjPCB	
Variant:	None	
Project Code:	IIPN1	
Report Date:	6/29/2021	12:37:04 AM
Print Date:	29/06/2021	00:37:12

#	Designator	Quantity	mn Name Error:Manufac	Manufacturer Part Number	#Column Name Error:Partnumber	Description	olumn Name Error:Pa	olumn Name Error:Fod	olumn Name Error	Fitted
1	CN2, CN7	2		53398-0671		1.25mm Pitch PicoBlade™ Header, Surface Mount, Vertical, 6 Circuits				Fitted
2	CN1, CN6	2		M20-9980745		Headers & Wire Housings 07+07 DIL VERTICAL PIN HEADER GOLD HT				Fitted
3	CN5	1		53398-0471		Connector Header Surface Mount 4 position 0.049" (1.25mm)				Fitted
4	CN4	1		53398-0571		Wire-To-Board Connector, Vertical, PicoBlade 53398 Series, Surface Mount, Header, 5, 1.25 mm				Fitted
5	CN3	1		B2B-XH-A-M(LF)(SN)		CONN HEADER TOP 2POS 2.5MM GRN				Fitted