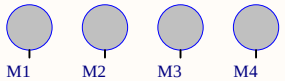
Rev	Description	Date	Author
1.0	Initial Release.	01/07/20	Yan C. de Azeredo

Revision History

Fiducials

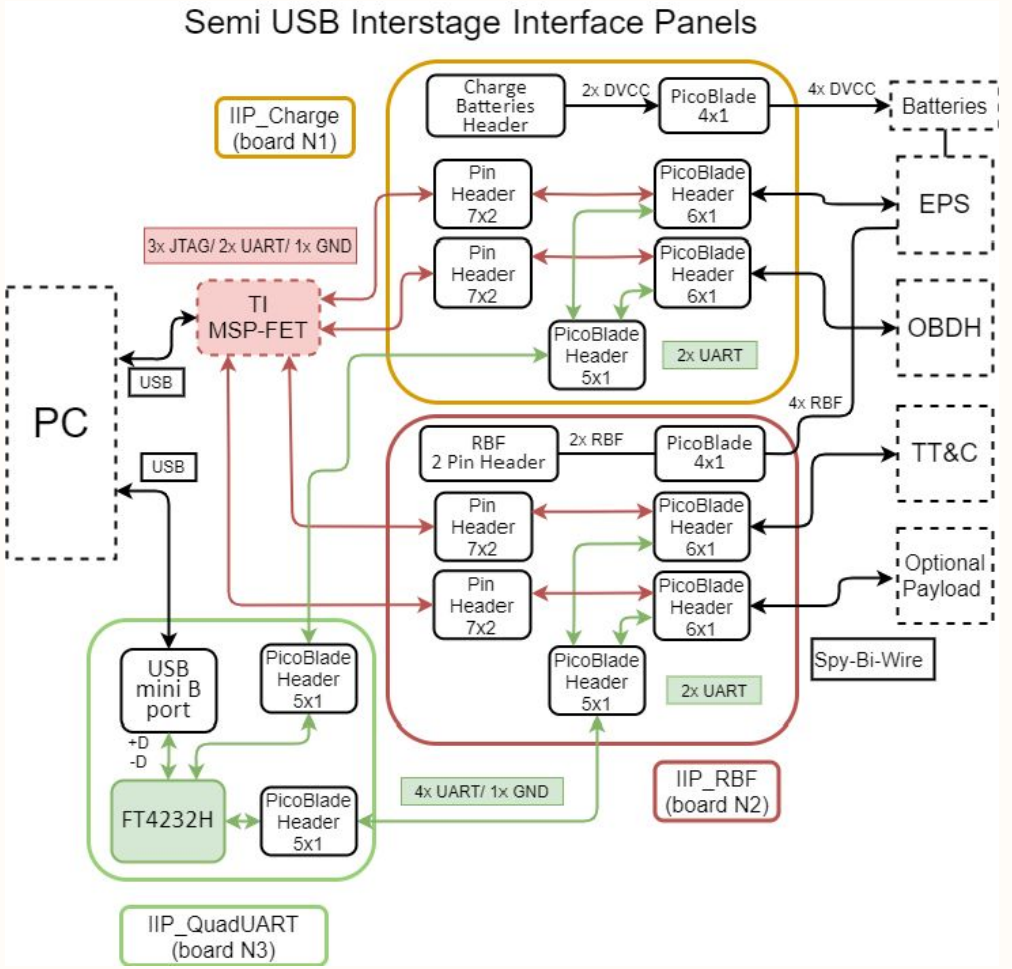
Mechanical Holes



PCB Elements

- Drawn by: Yan Castro de Azeredo
- Reviewers: Gabriel M. Marcelino and André M. P. Mattos
- Support: Gabriel M. Marcelino, André M. P. Mattos and Kleber Gouveia
- Mechanical validation: Edemar Morsch Filho

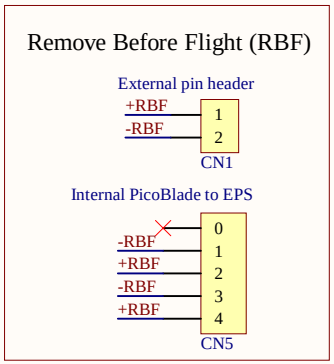
Project Information



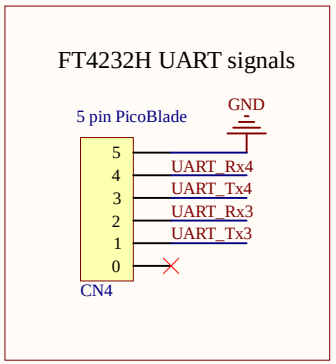
Full System Block Diagram

SpaceLab - Federal University of Santa Catarina			SPACE LAB
Project: *2_iip_rbf.PrjPCB / [No Variations]*			
Title: *IIP Hardware Architecture*			
Designed by: *Yan Castro de Azeredo*			Project Code: *IIP*
Date: 11/29/2020	Revision: *1.0*	Sheet *1* of *2*	Size: A4

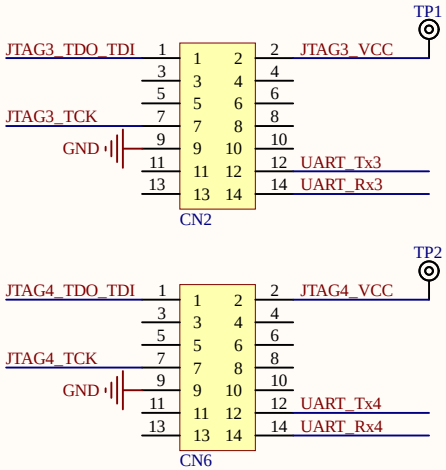
Remove Before Flight (RBF)



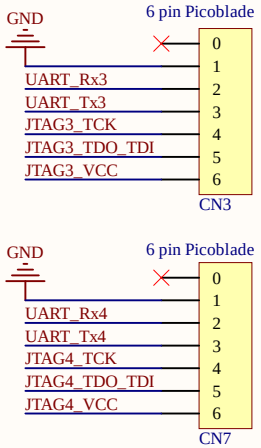
FT4232H UART signals



JTAG and redundant UART headers

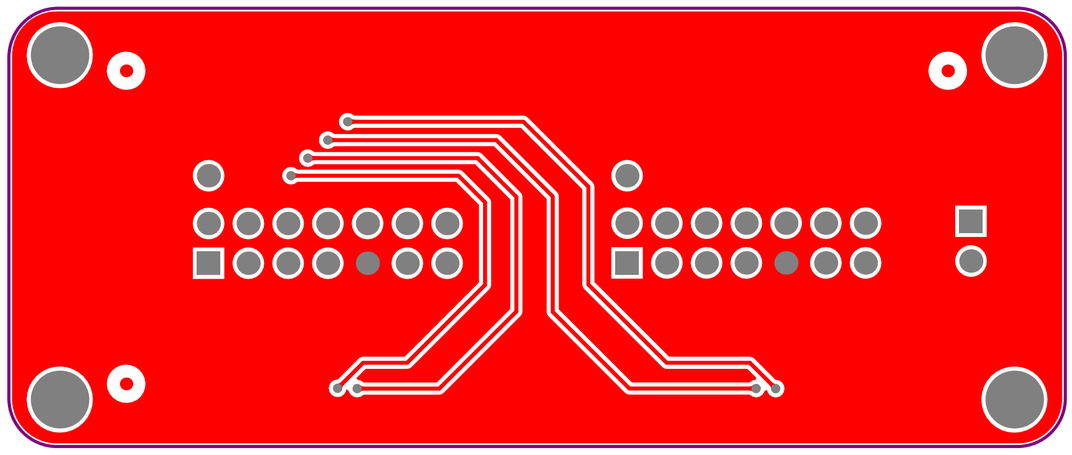


Debug and programming interfaces



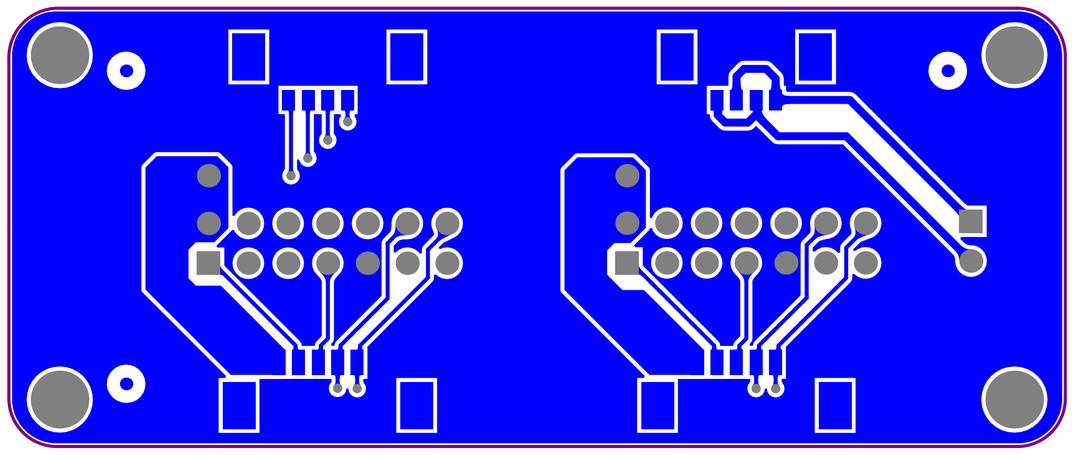
SpaceLab - Federal University of Santa Catarina			
Project: *2_iip_rbf.PrjPCB / [No Variations]*			
Title: *IIP N2 RBF Interfaces*			
Designed by: *Yan Castro de Azeredo*			Project Code: *IIPN2*
Date: 11/29/2020	Revision: *1.0*	Sheet *2* of *2*	Size: A4

Layer	Name	Material	Thickness	Constant	Board Layer Stack
	Top Overlay				
	Top Solder	Solder Resist	0.010mm	3.5	
1	Top Layer	Copper	0.036mm		
	Dielectric 1	FR-4	1.500mm	4.8	
2	Bottom Layer	Copper	0.036mm		
	Bottom Solder	Solder Resist	0.010mm	3.5	
	Bottom Overlay				



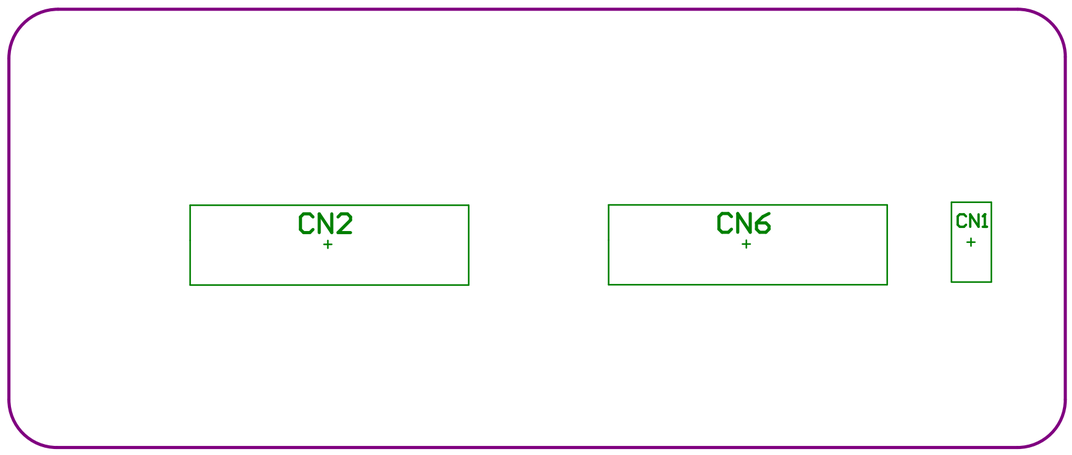
TITLE: IIP N.2 BOARD RBF		REV: 1.0	DATE: 02/07/2020
MATERIAL: FR4	Silkscreen color: white	Project: IIP	
Board Thickness: 1.6mm	Layers: 02	Space Technology Research Laboratory Federal University of Santa Catarina **SpaceLab UFSC**	
PCB Surface: HASL	Drawing: Yan C. de Azeredo		

Layer	Name	Material	Thickness	Constant	Board Layer Stack
	Top Overlay				
	Top Solder	Solder Resist	0.010mm	3.5	
1	Top Layer	Copper	0.036mm		
	Dielectric 1	FR-4	1.500mm	4.8	
2	Bottom Layer	Copper	0.036mm		
	Bottom Solder	Solder Resist	0.010mm	3.5	
	Bottom Overlay				



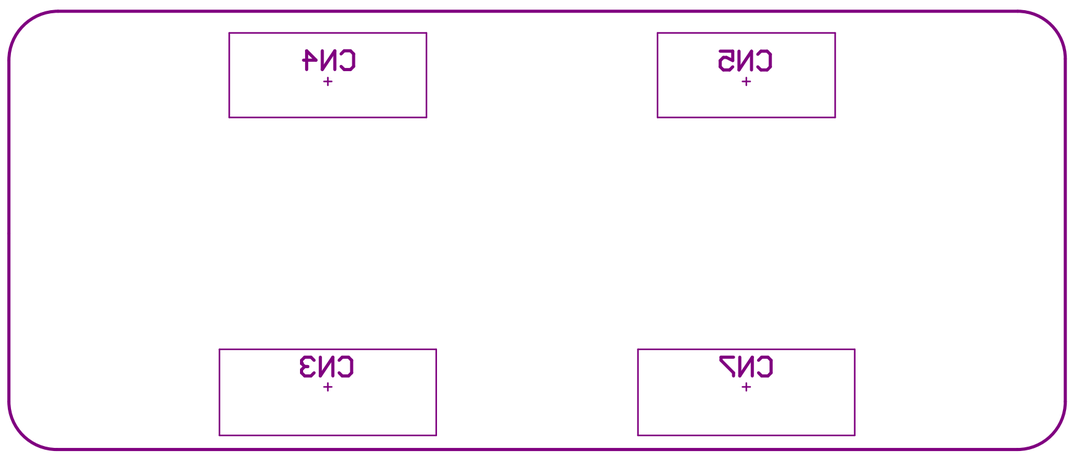
TITLE: IIP N.2 BOARD RBF		REV: 1.0	DATE: 02/07/2020
MATERIAL: FR4	Silkscreen color: white	Project: IIP	
Board Thickness: 1.6mm	Layers: 02	Space Technology Research Laboratory Federal University of Santa Catarina **SpaceLab UFSC**	
PCB Surface: HASL	Drawing: Yan C. de Azeredo		

Layer	Name	Material	Thickness	Constant	Board Layer Stack
	Top Overlay				
	Top Solder	Solder Resist	0.010mm	3.5	
1	Top Layer	Copper	0.036mm		
	Dielectric 1	FR-4	1.500mm	4.8	
2	Bottom Layer	Copper	0.036mm		
	Bottom Solder	Solder Resist	0.010mm	3.5	
	Bottom Overlay				



TITLE: IIP N.2 BOARD RBF		REV: 1.0	DATE: 02/07/2020
MATERIAL: FR4	Silkscreen color: white	Project: IIP	
Board Thickness: 1.6mm	Layers: 02	Space Technology Research Laboratory Federal University of Santa Catarina **SpaceLab UFSC**	
PCB Surface: HASL	Drawing: Yan C. de Azeredo		

Layer	Name	Material	Thickness	Constant	Board Layer Stack
	Top Overlay				
	Top Solder	Solder Resist	0.010mm	3.5	
1	Top Layer	Copper	0.036mm		
	Dielectric 1	FR-4	1.500mm	4.8	
2	Bottom Layer	Copper	0.036mm		
	Bottom Solder	Solder Resist	0.010mm	3.5	
	Bottom Overlay				



TITLE: IIP N.2 BOARD RBF		REV: 1.0	DATE: 02/07/2020
MATERIAL: FR4	Silkscreen color: white	Project: IIP	
Board Thickness: 1.6mm	Layers: 02	Space Technology Research Laboratory Federal University of Santa Catarina **SpaceLab UFSC**	
PCB Surface: HASL	Drawing: Yan C. de Azeredo		

Bill of Materials

Source Data From:	2_iip_rbf.PrjPCB	
Project:	2_iip_rbf.PrjPCB	
Variant:	None	
Project Code:	IIPN2	
Report Date:	11/29/2020	11:17 PM
Print Date:	29/11/2020	23:17:22

#	Designator	Quantity	Manufacturer	Manufacturer Part Number	#Column Name Error:' Partnumber	Description	lumn Name Error:' P	Footprint	Mount	Fitted
1	CN3, CN7	2	Molex	53398-0671		1.25mm Pitch PicoBlade™ Header, Surface Mount, Vertical, 6 Circuits		PICO BLADE 0533980671	Surface Mount	Fitted
2	CN2, CN6	2	Harwin	M20-9980745		Headers & Wire Housings 07+07 DIL VERTICAL PIN HEADER GOLD HT		CONN HEADER VERT 14POS 2.54MM	Through Hole	Fitted
3	CN5	1	Molex	53398-0471		Connector Header Surface Mount 4 position 0.049" (1.25mm)		PICO BLADE 0533980471	Surface Mount	Fitted
4	CN4	1	Molex	53398-0571		Wire-To-Board Connector, Vertical, PicoBlade 53398 Series, Surface Mount, Header, 5, 1.25 mm		PICO BLADE 0533980571	Surface Mount	Fitted
5	CN1	1	Harwin	M20-9990245		M20 HDR, PIN, SIL, VERT, 2W		CONN HEADER VERT 2POS 2.54mm	Through Hole	Fitted