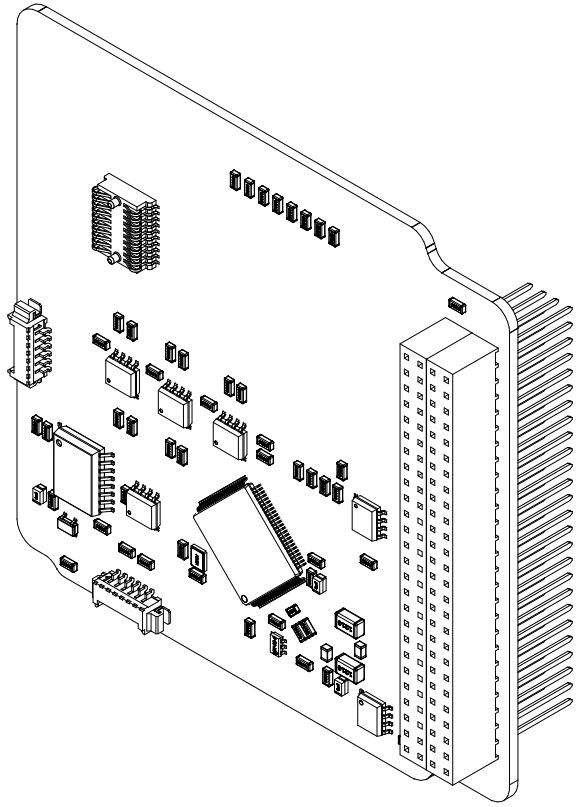
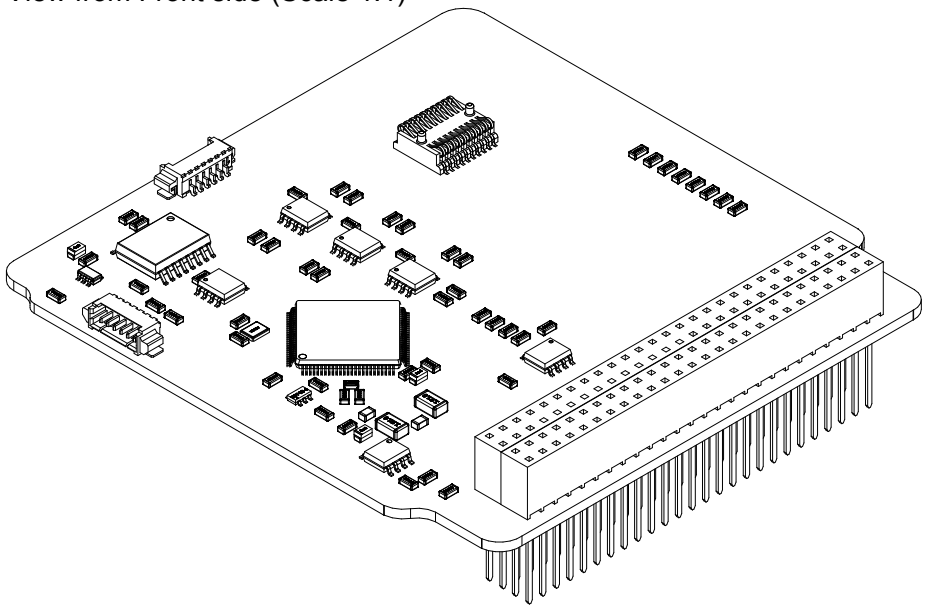
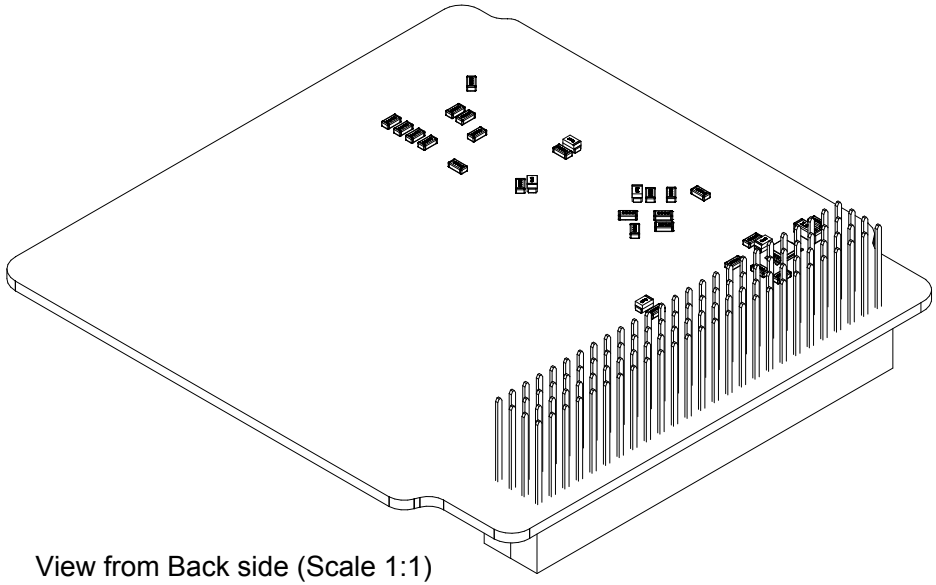
View from Top side (Scale 1:1)



View from Front side (Scale 1:1)





View from Back side (Scale 1:1)

OBDH2 Hardware:

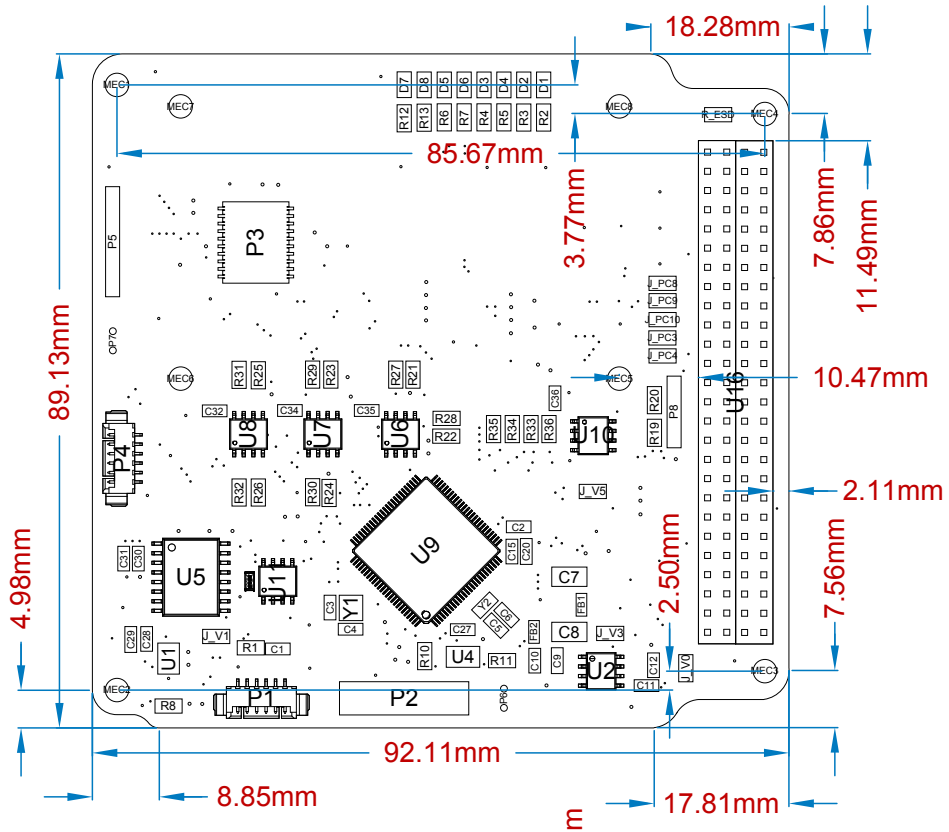
- Designed by: André M. P. Mattos.
- Reviewers: Cezar A. Rigo, Kleber Gouveia and Yan C. Azeredo.
- Based on FloripaSat-I OBDH designed by: Sara V. Martinez.
- Support: Gabriel M. Marcelino.

Github repository: https://github.com/spacelab-ufsc/obdh2

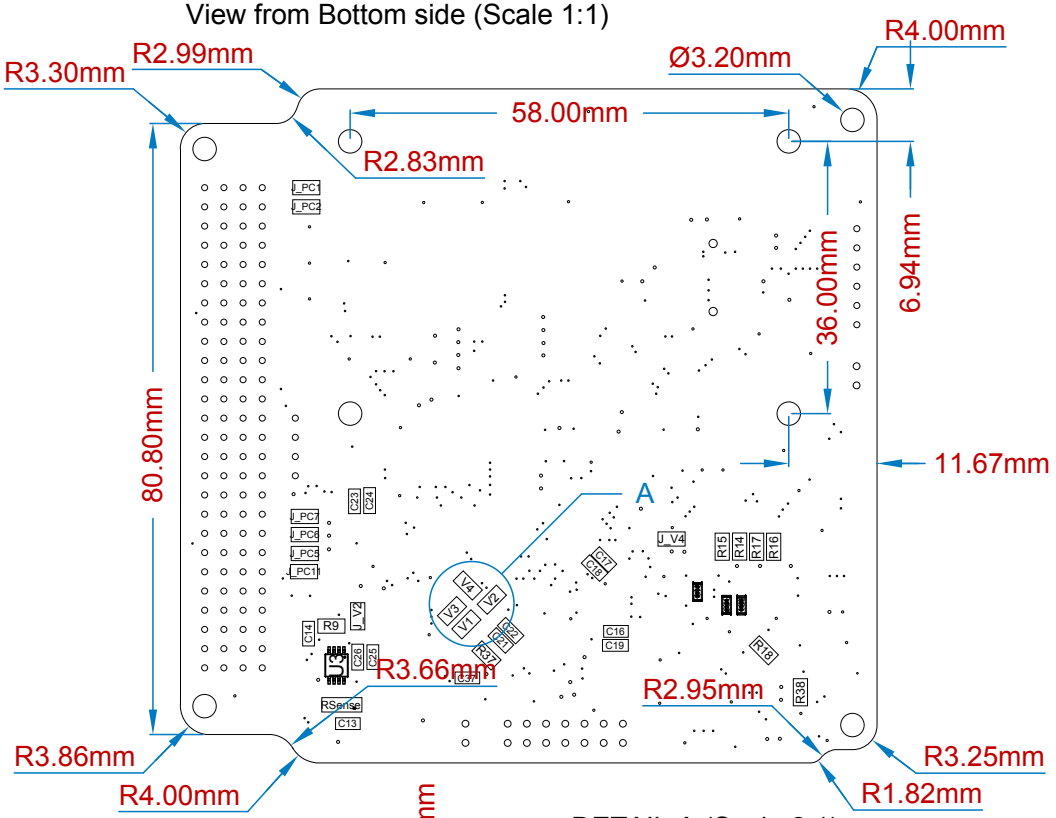
SpaceLab - Federal University of Santa Catarina			SPACE LAB
Project: On-board data handling 2.0			
Title: Project info and board isometric views			
Designed by: Andre M. P. Mattos			Project code: OBDH2
Date: 03/06/2021	Version: 0.7	Sheet 1 of 3	Sheet size: A4

Displayed components within a red mesh box
are not supposed to be soldered in the flight model of the board.

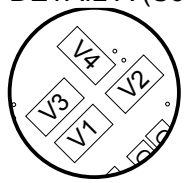
View from Top side (Scale 1:1)



View from Bottom side (Scale 1:1)

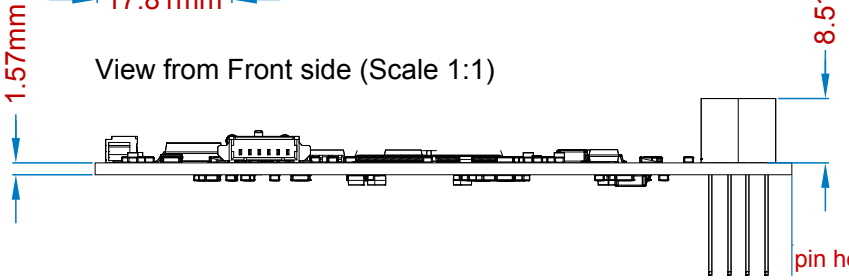


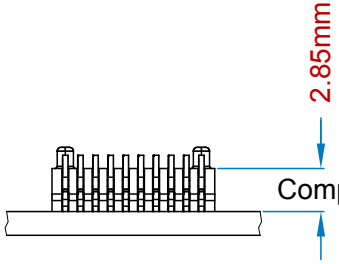
DETAIL A (Scale 2:1)



Hardware versioning resistors for v0.7

View from Front side (Scale 1:1)

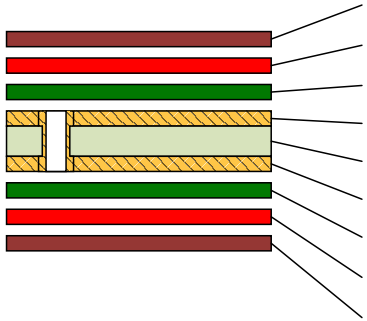




Component View FSI-110-03-X-D-AD (Scale 2:1) (Designator: P3)

SpaceLab - Federal University of Santa Catarina			SPACE LAB
Project: On-board data handling 2.0			
Title: Assembly components and mechanical dimensions			
Designed by: Andre M. P. Mattos			Project code: OBDH2
Date: 03/06/2021	Version: 0.7	Sheet 2 of 3	Sheet size: A4

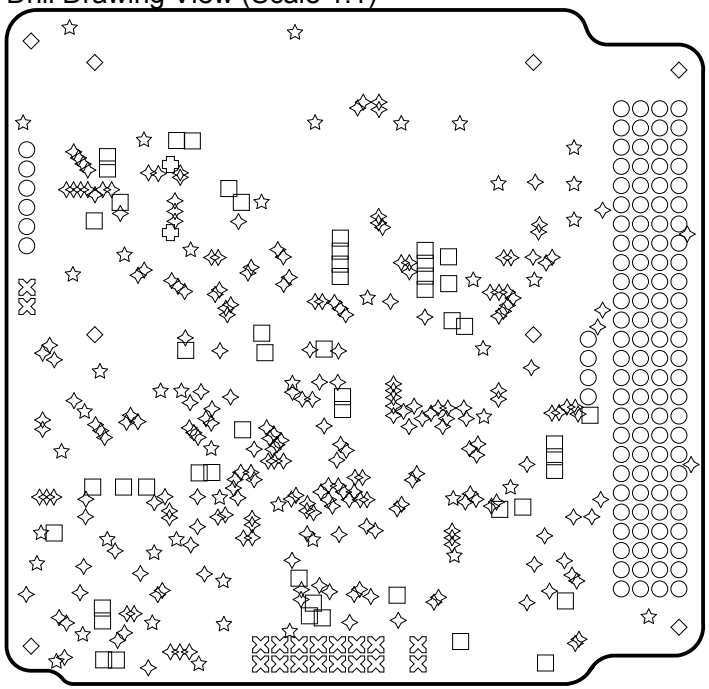
Layer Stack Legend



Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Paste			Paste Mask	GTP
	Top Overlay			Legend	GTO
Surface Material	Top Solder	0.01mm	Solder Resist	Solder Mask	GTS
Copper	Top Layer	0.04mm		Signal	GTL
Core		*1.50mm*	*FR-4*	*Dielectric*	
Copper	Bottom Layer	0.04mm		Signal	GBL
Surface Material	Bottom Solder	0.01mm	Solder Resist	Solder Mask	GBS
	Bottom Overlay			Legend	GBO
	Bottom Paste			Paste Mask	GBP

Total thickness: 1.59mm

Drill Drawing View (Scale 1:1)



Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
✧	247	0.30mm	Plated	None
☆	46	0.40mm	Plated	None
□	51	0.50mm	Plated	None
○	114	0.90mm	Plated	None
⊠	18	1.00mm	Plated	None
✣	2	1.19mm	Non-Plated	None
◇	8	3.20mm	Plated	None
	486 Total			

SpaceLab - Federal University of Santa Catarina			SPACE LAB
Project: On-board data handling 2.0			
Title: Layer stack and drill tables			
Designed by: Andre M. P. Mattos			Project code: OBDH2
Date: 03/06/2021	Version: 0.7	Sheet 3 of 3	Sheet size: A4