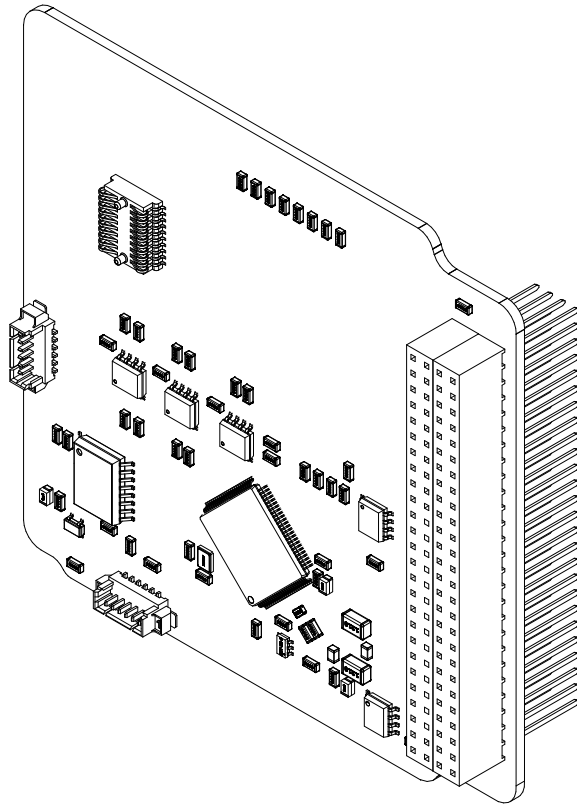
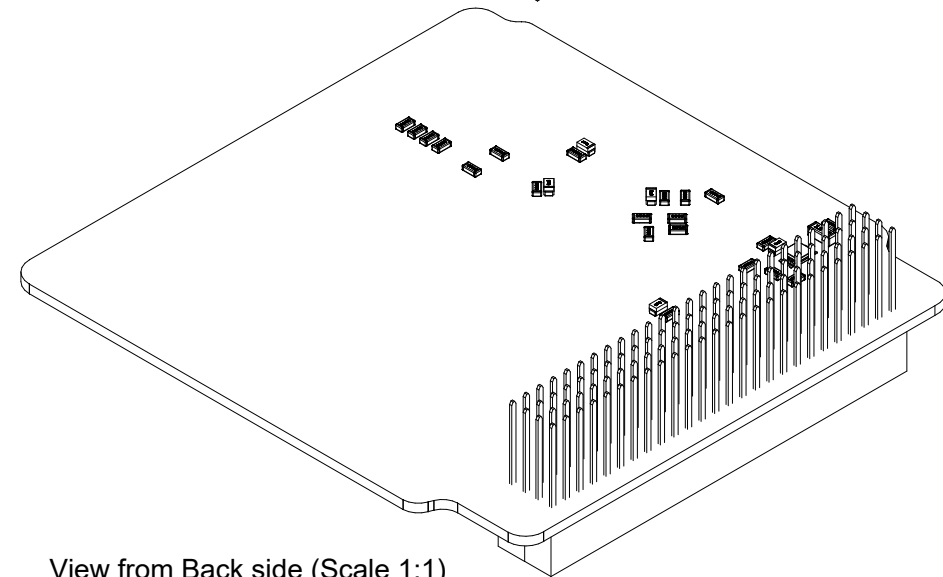
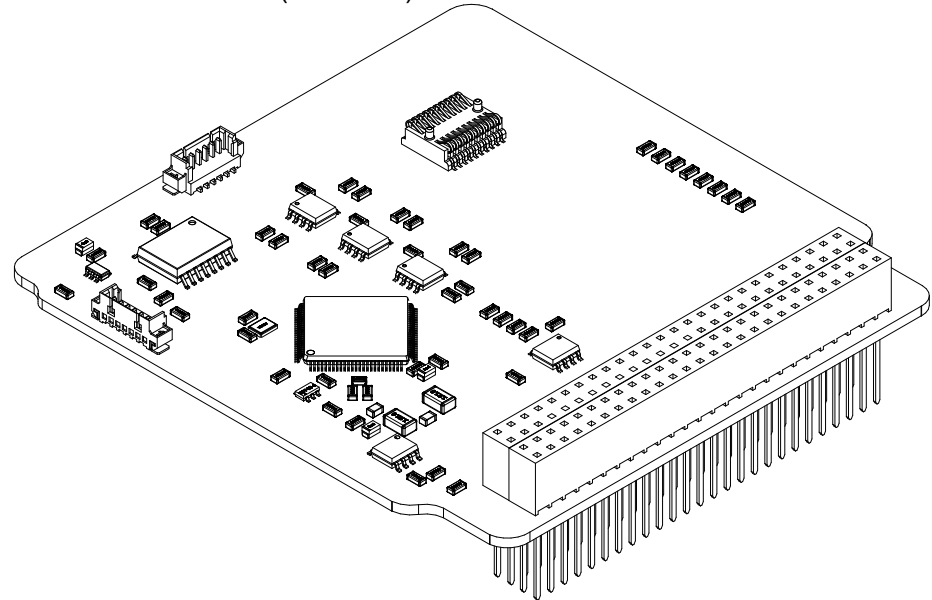


View from Top side (Scale 1:1)



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.

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

SpaceLab - Federal University of Santa Catarina

Project: On-board data handling 2.0

Title: Project info and board isometric views

Designed by: Andre M. P. Mattos

Date: 09/11/2020


Version: 0.5

Sheet 1 of 3

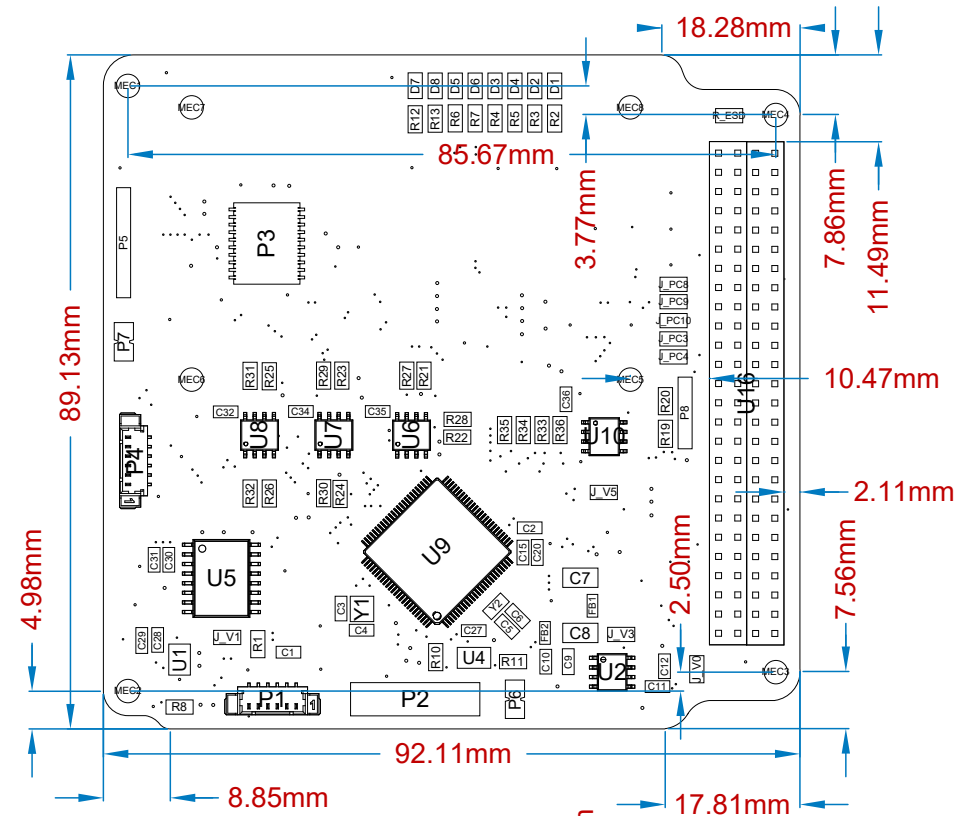


Project code: OBDH2

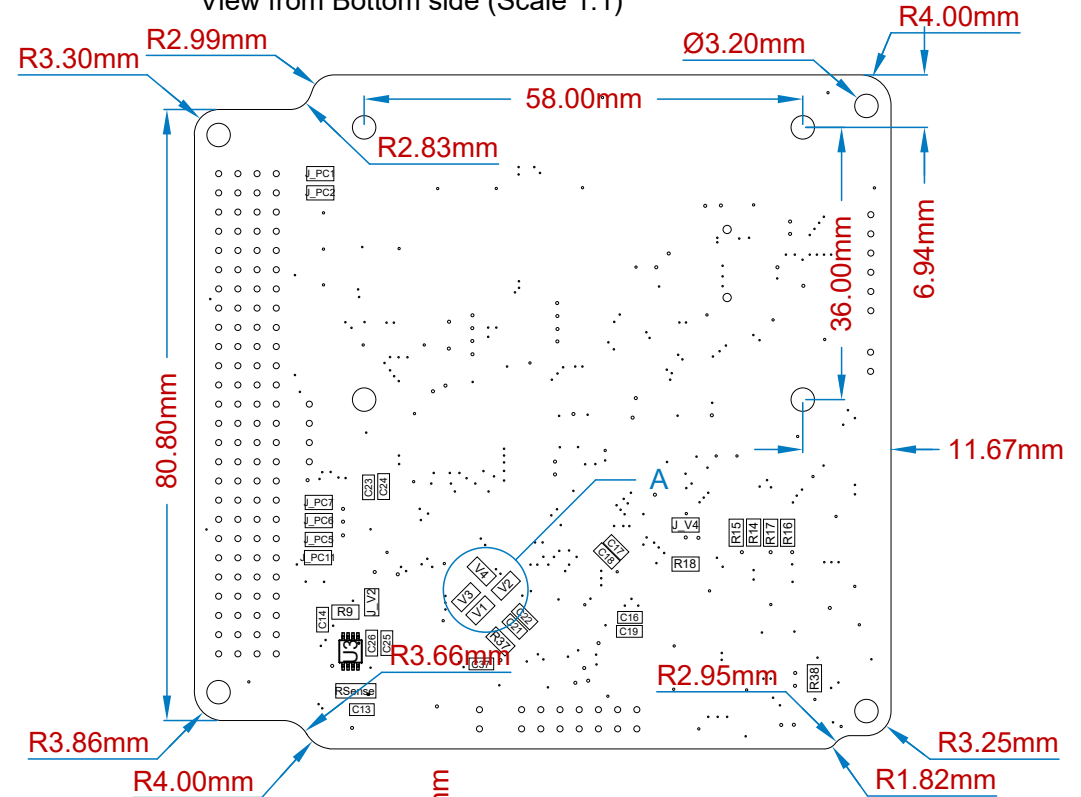
Sheet size: A4

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

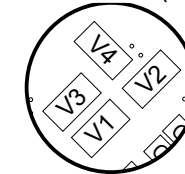
View from Top side (Scale 1:1)



View from Bottom side (Scale 1:1)

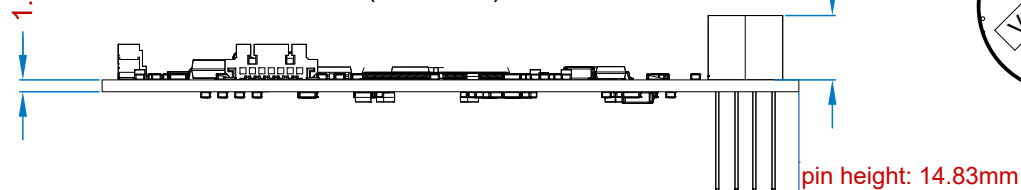


DETAIL A (Scale 2:1)

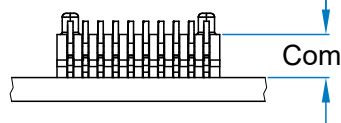



Hardware versioning resistors for v0.5

View from Front side (Scale 1:1)



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

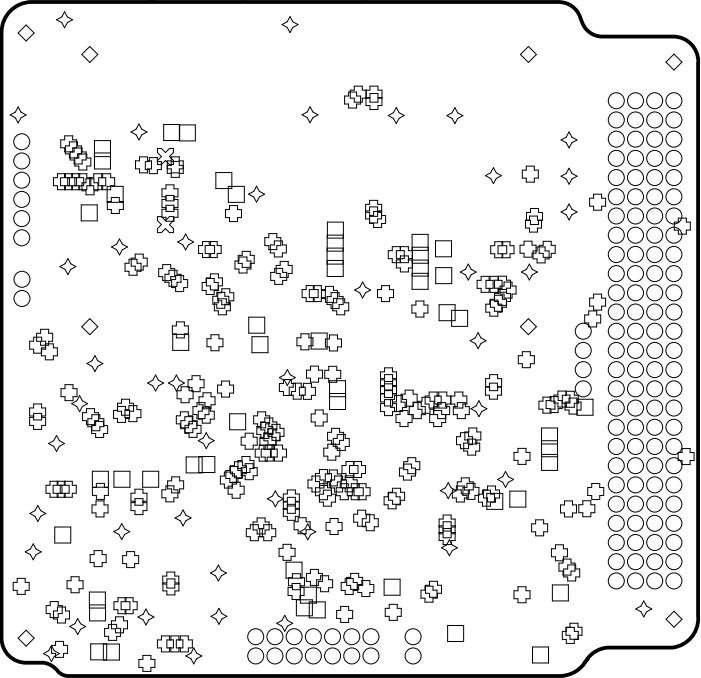


SpaceLab - Federal University of Santa Catarina			
Project: On-board data handling 2.0			
Title: Assembly components and mechanical dimensions			
Designed by: Andre M. P. Mattos			Project code: OBDH2
Date: 09/11/2020	Version: 0.5	Sheet 2 of 3	Sheet size: A4

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
⊕	235	0.30mm	Plated	None
◇	44	0.40mm	Plated	None
□	51	0.50mm	Plated	None
○	132	0.90mm	Plated	None
⊗	2	1.19mm	Non-Plated	None
◇	8	3.20mm	Plated	None
472 Total				

SpaceLab - Federal University of Santa Catarina

Project: On-board data handling 2.0

Title: Layer stack and drill tables

Designed by: Andre M. P. Mattos

Date: 09/11/2020

Version: 0.5

Sheet 3 of 3



Project code: OBDH2

Sheet size: A4