

A

B

C

D

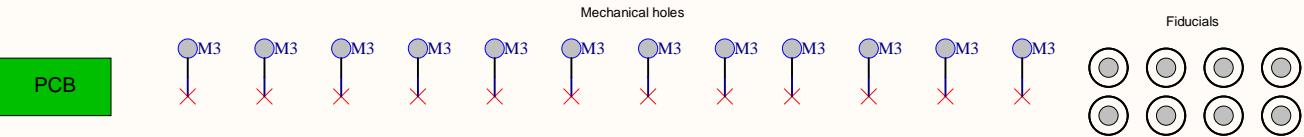
FlatSat Hardware:

- Designed by: Yan C. de Azeredo
- Reviewers: Gabriel M. Marcelino and André M. P. Mattos
- Support:

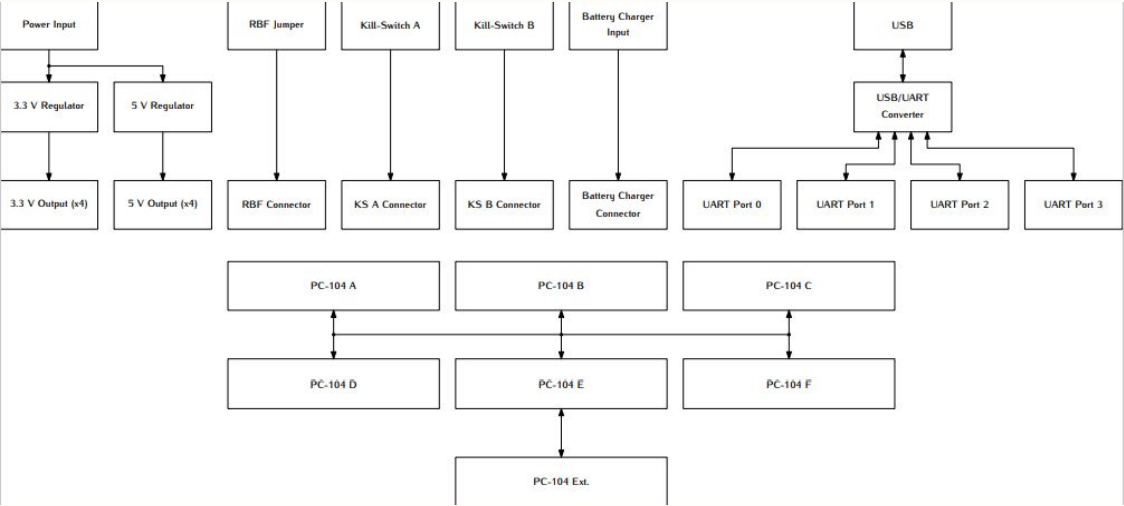
Project Contributions

Rev	Description	Date	Author
0.1	Initial release	11-10-2020	Yan C. de Azeredo

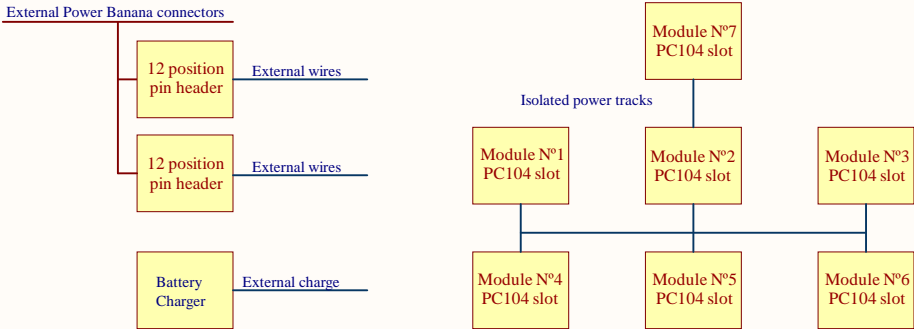
Revision History




PCB Elements



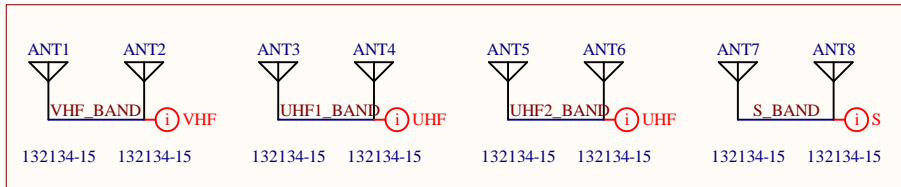
Block Diagram



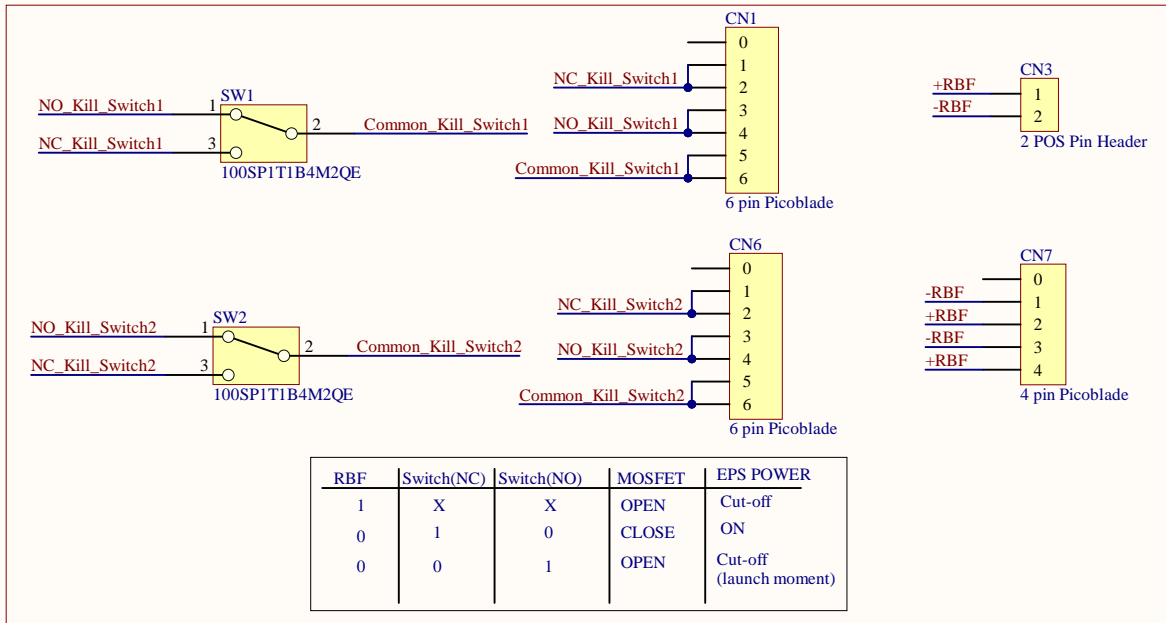
Power Architecture

SpaceLab - Federal University of Santa Catarina			
Project: <i>flatsat_platform.PrjPcb / [No Variations]</i>			
Title: <i>FlatSat Hardware Architecture</i>			
Designed by: <i>Yan Castro de Azeredo</i>			Project Code: <i>FLATSAT</i>
Date: <i>10/11/2020</i>	Revision: <i>1.0</i>	Sheet <i>1</i> of <i>3</i>	Size: <i>A4</i>

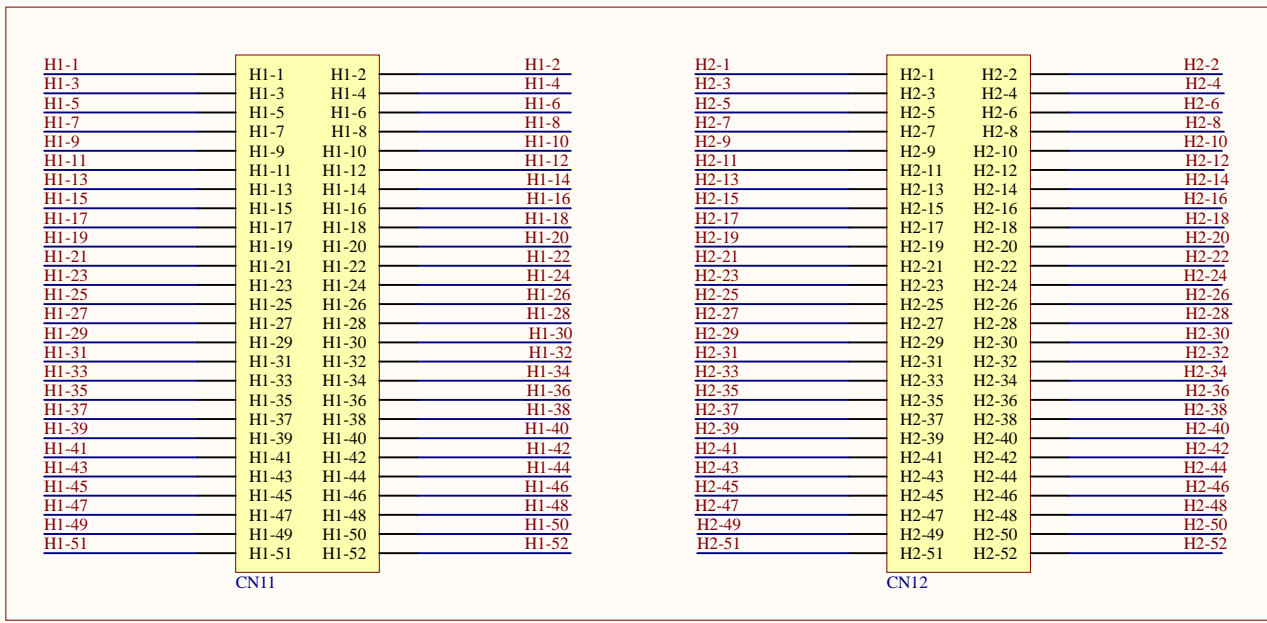
SMA Connectors



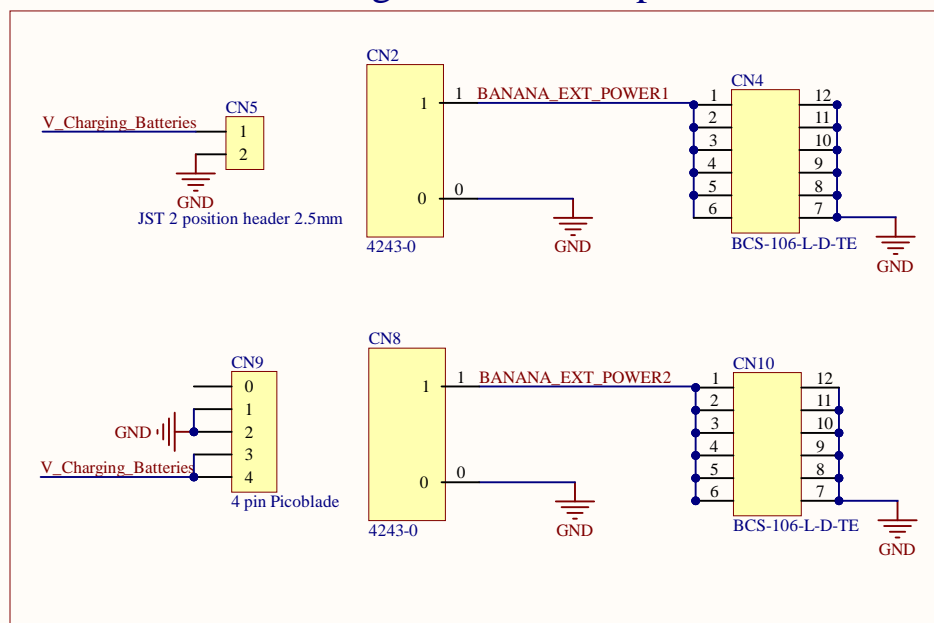
RBF and Kill-Switches



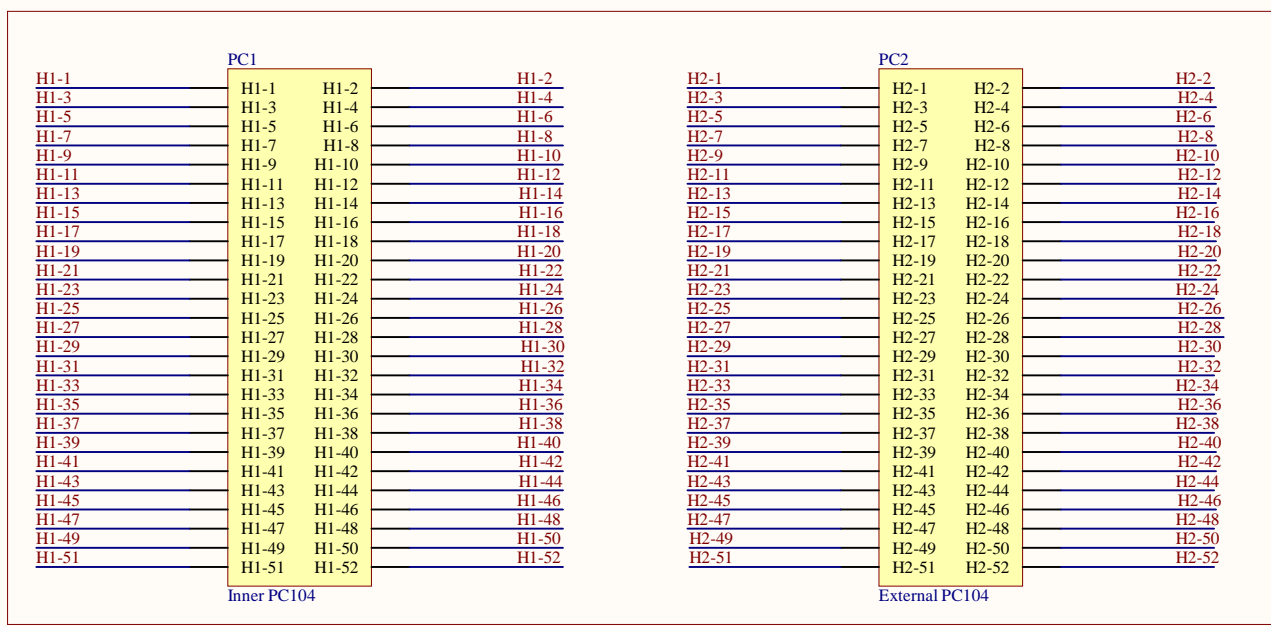
PC104 slot N°7



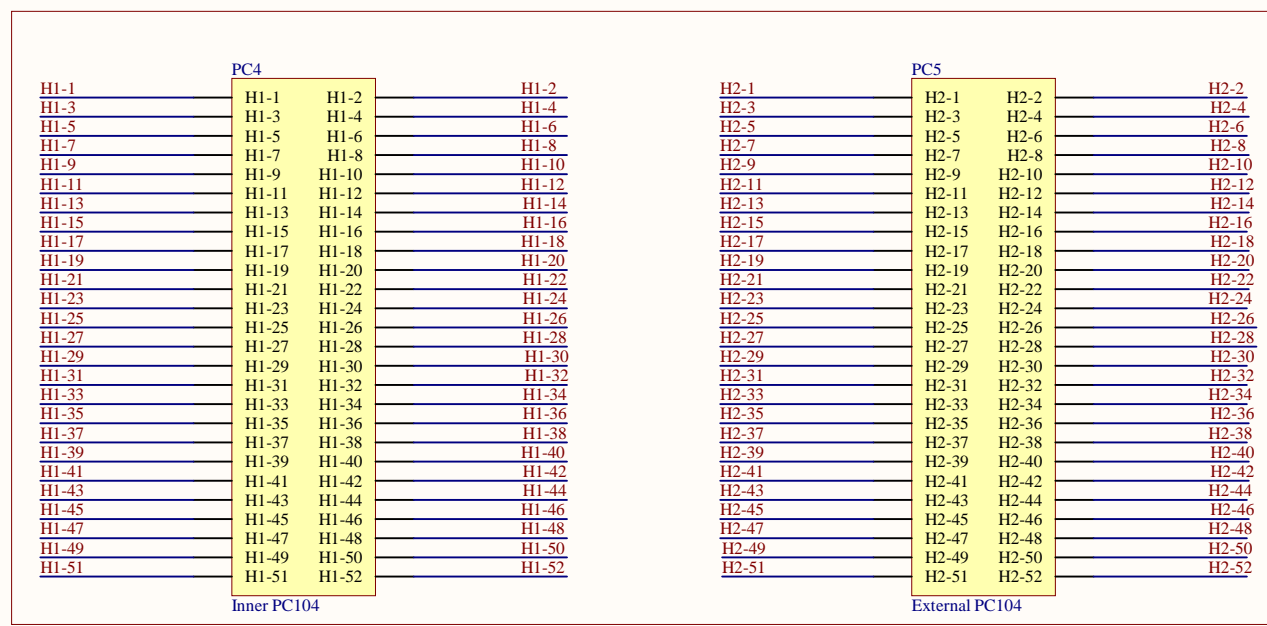
Charge and external power



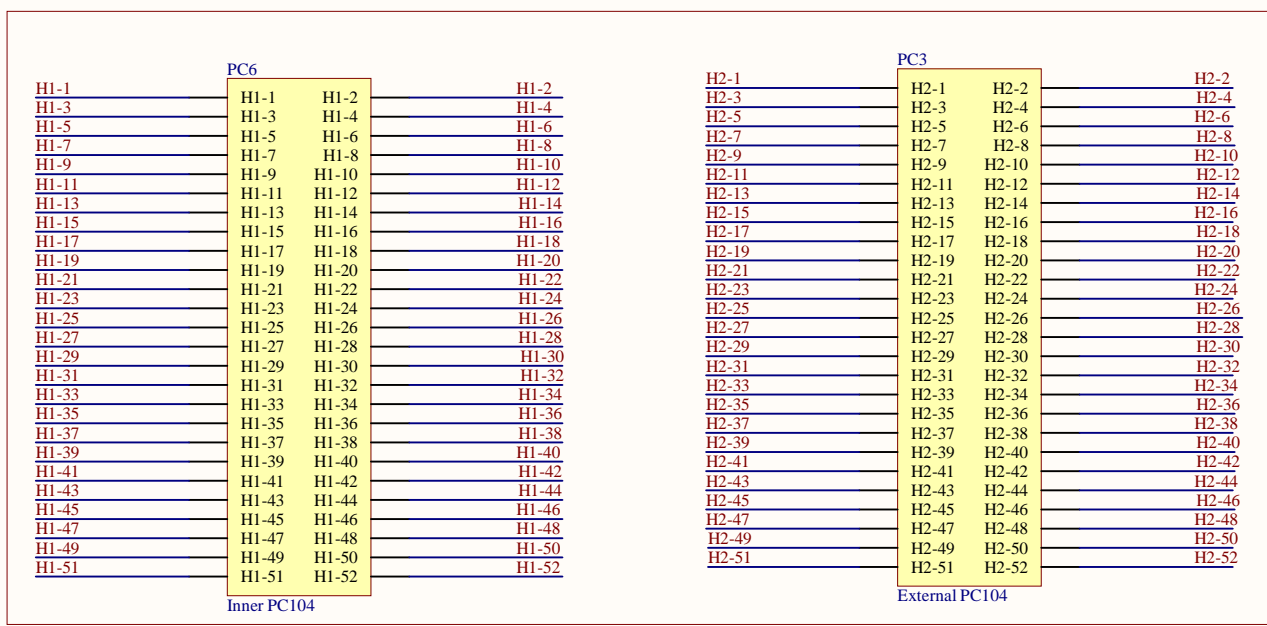
PC104 slot N°1



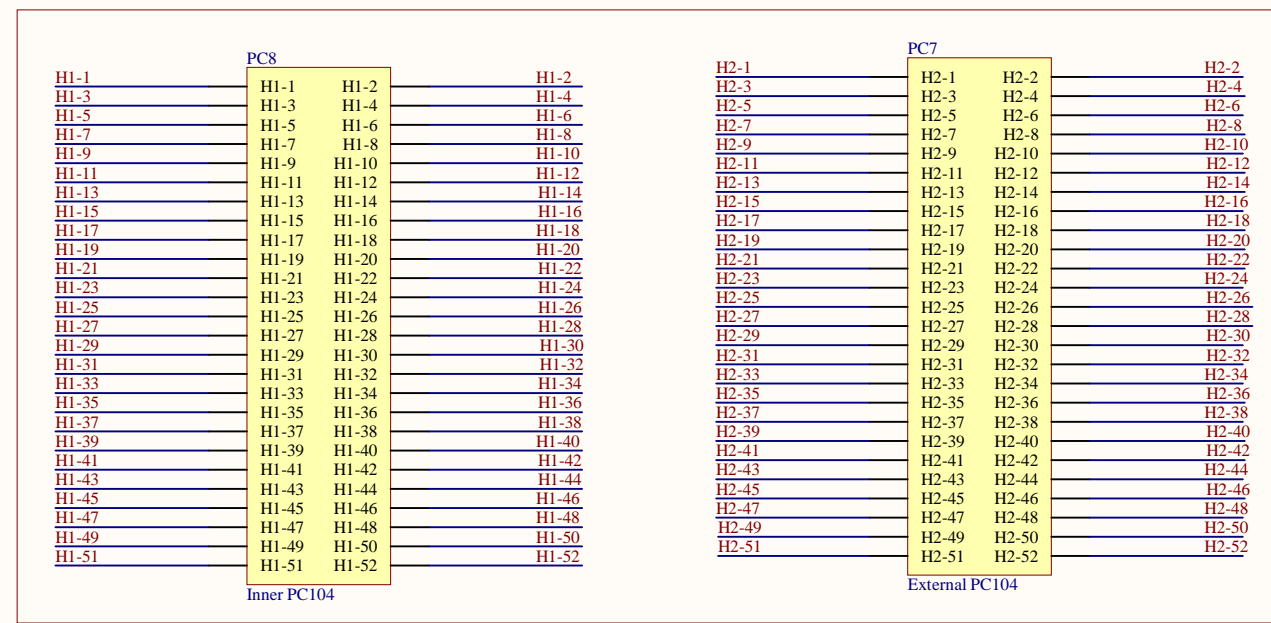
PC104 slot N°2



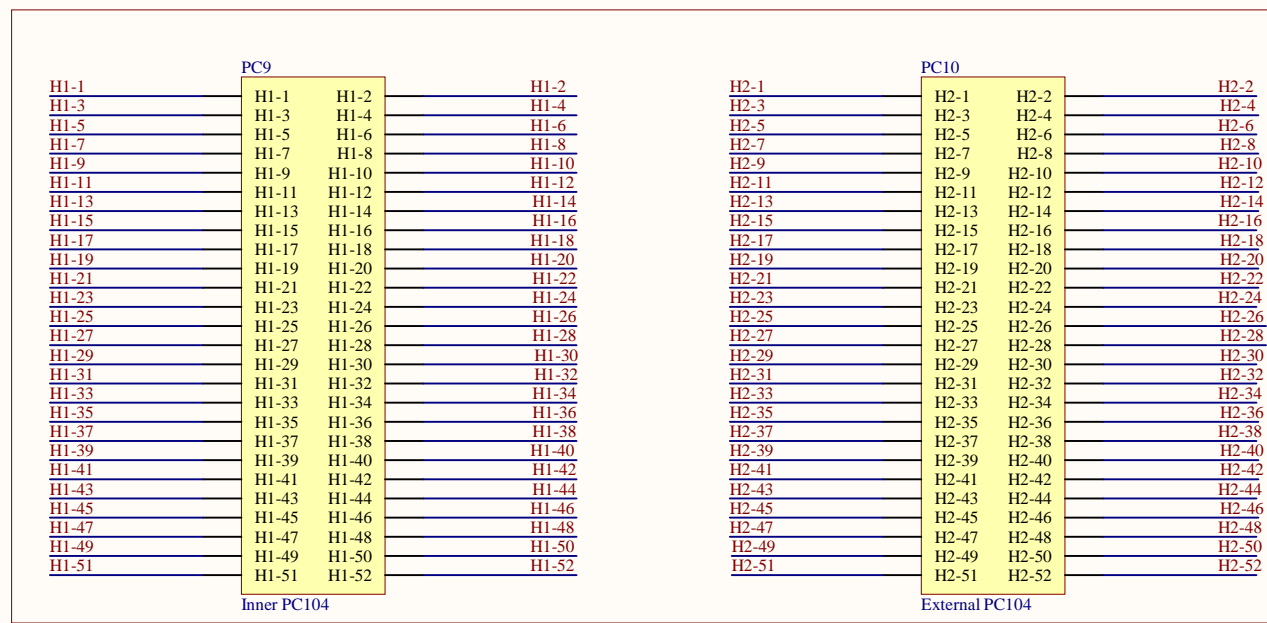
PC104 slot N°3



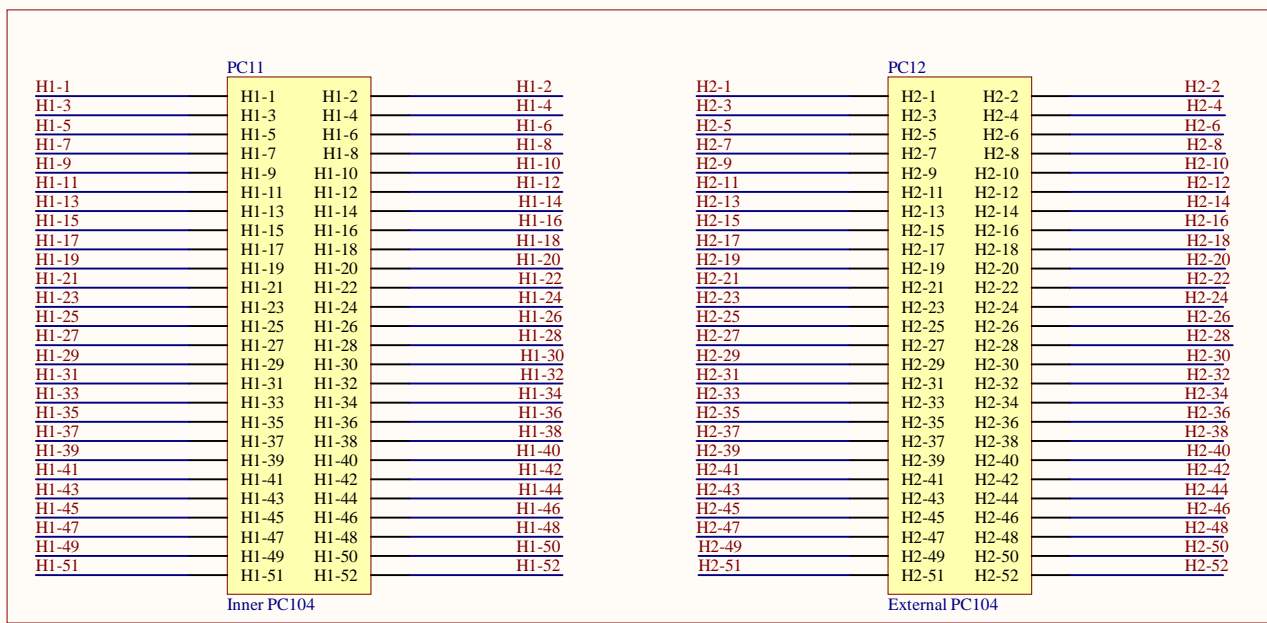
PC104 slot N°4

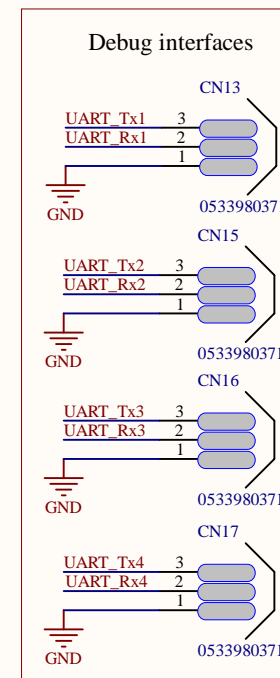
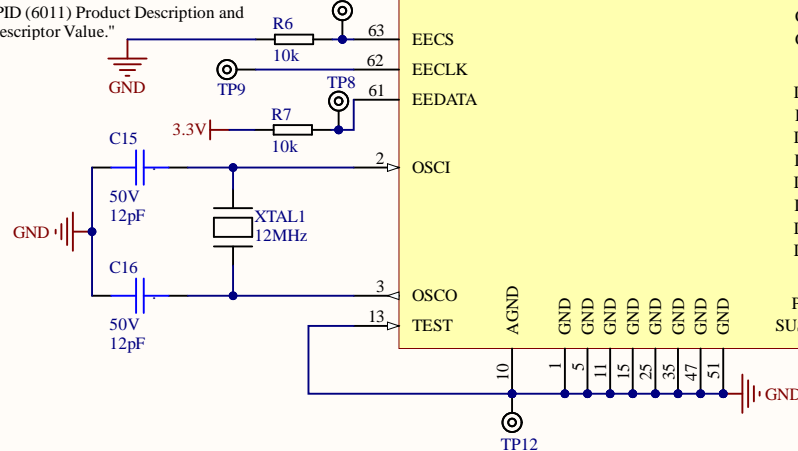
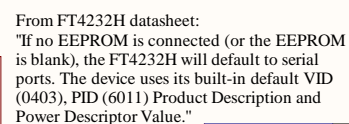
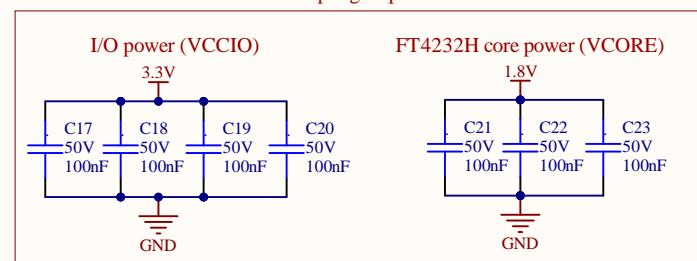
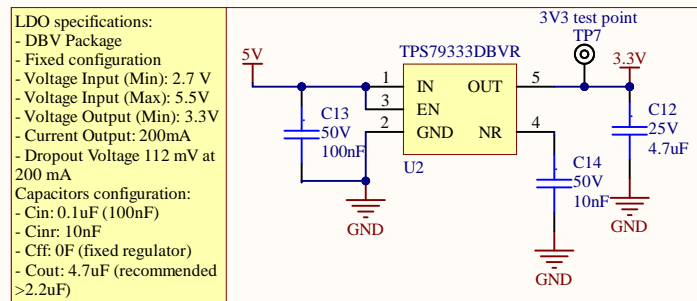
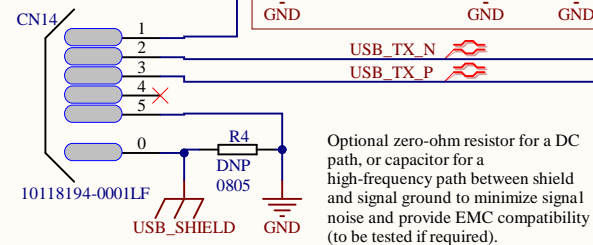
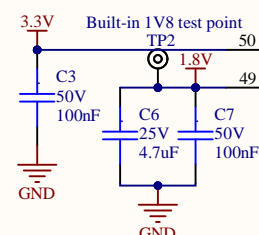
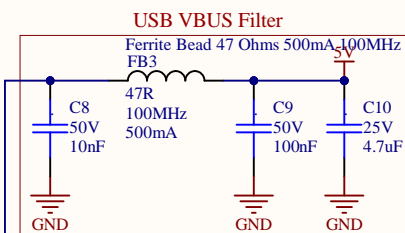
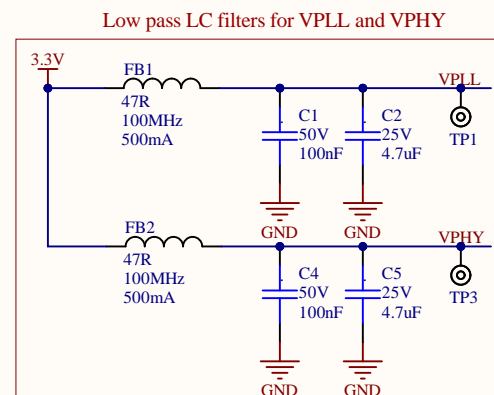


PC104 slot N°5



PC104 slot N°6





Testpoints for debugging IC

PWREN# = 0: Normal operation.

PWREN# = 1: USB SUSPEND mode or device has not been configured.

SUSPEND#: Active low when USB is in suspend mode.