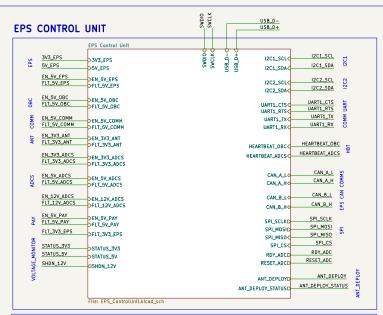


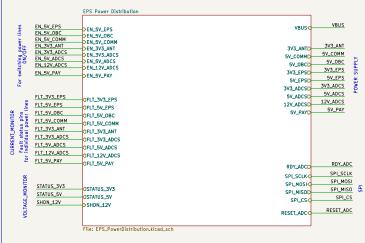
EPS POWER DISTRIBUTION BOARD

QAed BY:

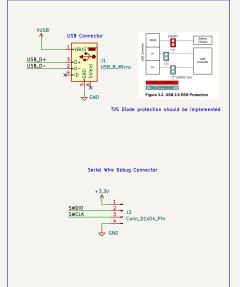
AMEYA MARAKARKANDY HARSHIL SINGLA

SEPT 2024

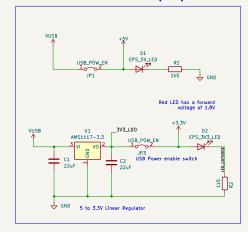




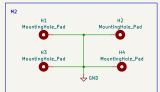
EXTERNAL CONNECTIONS



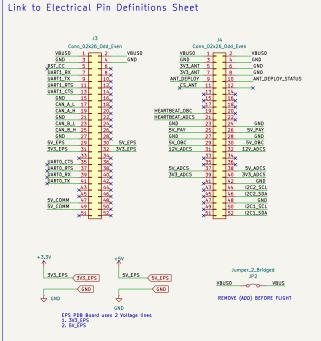
ALTERNATIVE POWER SUPPLY (USB)



MOUNTING HOLES



CUBESAT PC104 BUS



Author: Ameya Marakarkandy ameya.marakarkandy@gmail.com IIT Bombay Student Satellite Program File: EPS_PDB.kicad_sch Title: EPS Power Distribution Board Size: A3 Date: 2024-09-12 KiCad E.D.A. 8.0.5 Rev: ld: 1/3

EPS POWER DISTRIBUTION AND REGULATION UNIT

ALL PASSIVES ARE 0603 UNLESS SPECIFIED

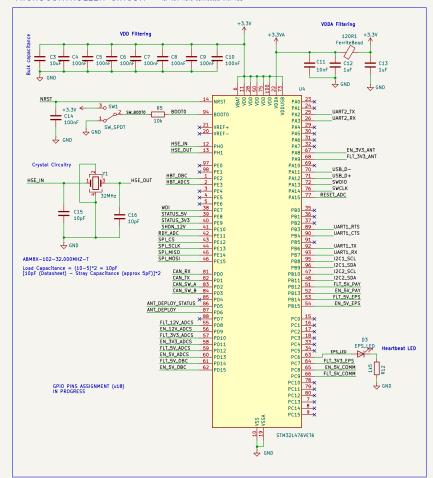
EPS CONTROL UNIT

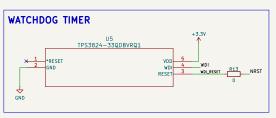
RESISTOR SIZING

AMEYA MARAKARKANDY

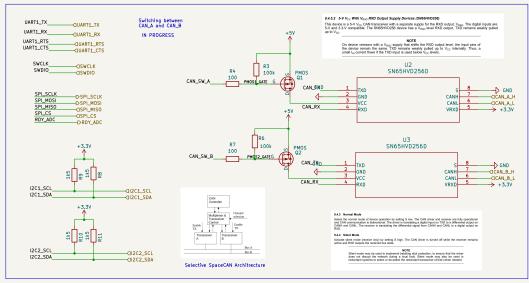
MICROCONTROLLER CIRCUIT

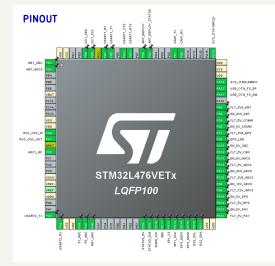
NOTE: VBAT should be tied to external battery or RTC for now have connected with VDD

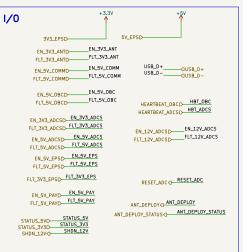




COMMUNICATION INTERFACES

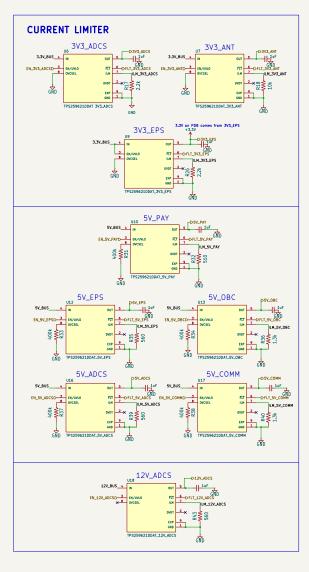


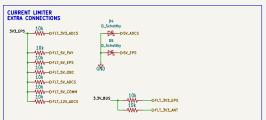


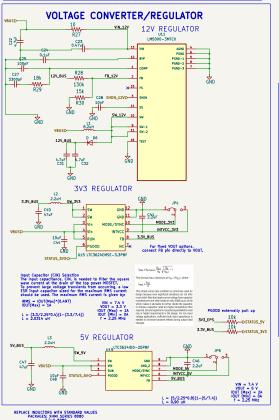


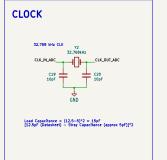
Author: Ameya Marakarkandy
ameya.marakarkandy@gmail.com
IIT Bombay Student Satellite Program
Sheet: /EPS Control Unit/
Fite: EPS Control Unit/
Fite: AS Date: 2024-09-08
Rev: v1.0
KiCad E.D.A. 8.0.5
Id: 2/3

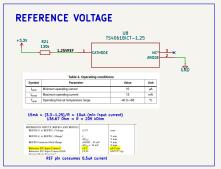
EPS DISTRIBUTION & REGULATION UNIT HARSHIL SINGLA

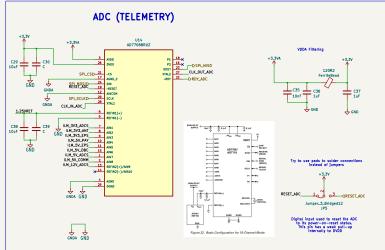












Author: Harshil Singla IIT Bombay Student Satellite Program Sheet: /EPS Power Distribution/ File: EPS_PowerDistribution.kicad_sch

Size: User Date: 2024-09-05 KICad E.D.A. 8.0.5

Title: EPS Distribution and Regulation Unit

Rev: ld: 3/3