

PLANNING AND CHANGES

Issues in PB_A_1.1.1, changes require in PB_A_1.2-

- 1. Buttons should be connected to RTC GPIO-----DONE
- 2. AHT sensor should be placed away from MCU so that we can get the exact and accurate temperature reading-----DONE
- 3. Need to recheck battery charging section, as it's not working for dead battery, we cannot charge the dead battery and provide system load at the same time with current circuit-----DONE
- 3.1) Also, Add battery on off logic (as used in tracker device)-----DONE
- 4. D2 LED ss recheck.-----DONE
- 5. Charging current change to 200mA (R35 should be 4.7K) --- DONE
- 6. 100k pull down at gate of Q10-----DONE
- 7. BOTTLE_SWITCH should be multiplexed with ESP_TX (need to check on hardware first, need to be confirm by vipin sir)-----DONE
- 8. if 7 point is confirmed then we'll use a separate pin for charge ctrl.-----DONE
- 9. Power of SW32 and SW33 should be changed, take power from Q4,5,6,7 instead.-----DONE
- 10. gate pull up should be 100k instead of 10k of P-channel mosfet.-----DONE
- 11. need to add coin cell as backup for RTC ckt using diode.-----MS621FE-FL11E added with BAT54KFILM
- 12. U11 should provide power instead of Ground, and U8 should provide ground.-----DONE
- 13. Check Boot pin from EL-400.----- DONE
- 14. PCB thickness should be confirmed by 3D Designer or Client.----- 1.2mm
- 15. New Gerber of TG01 should be given by VIP sir. ---- DONE
- 16. Recheck Buzzer's footprint.....Pin distance reduced as per datasheet.
- 17. Add silkscreen for Speaker and Battery conn.....DONE
- 18. Add polarity for LCD LED.....DONE

29-06-2024-

Issues in PB_A_1.3-

- 1. Cannot use common SDAA signal for RTC and Accelero. Separate signal SDAA HT used.

21-12-2024-

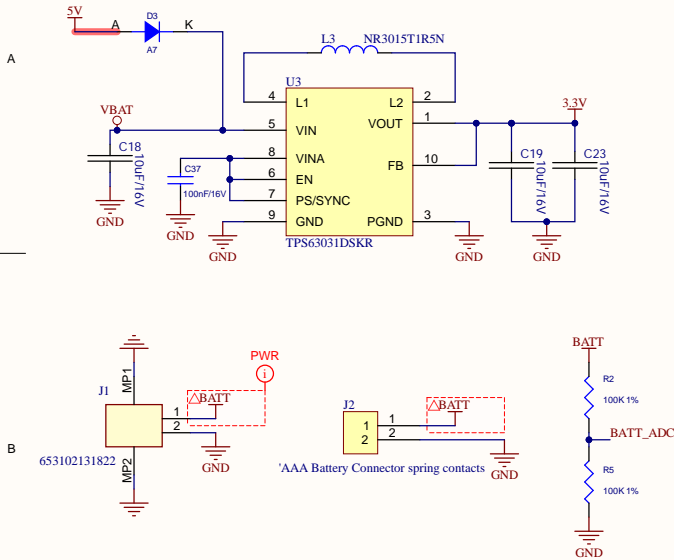
Changes in PB_1.3.2-

- 1. Value of LED PWR resistors (R79-R85) and RGB LED changed from 2.2k o 470R.
- 2. LEDs LED1- LED28 changed to Blue, PN- SMLD12BN1WT86.
- 3. Hall sensor (SW1-SW28) changed to KTH1601.
- 4. Buzzer connected on pin 48 and GAIN_SLOT connected on ESP_RX.
- 5. Board shape changed completely as per new design.
- 6. PN of crystal changed to XTAL206-32.768K-9P-2020-CI.
- 7. Need to place crystal on the bottom side.
- 8. Made changes in Audio ckt.
- 9. Footprint of LCD updated for backlight.
- 10. AHT20 to the center of the PCB- Need to check.
- 11. PN of RGB LED changed to 19-337/R6GHBHC-A01/2T.
- 12. SCLL connected on ESP_TX.

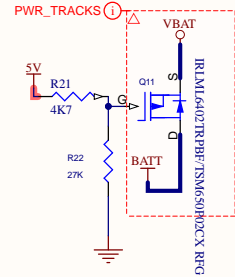
PB_A_1.3.2

Size A3	FCSM No.	DWG No.	Rev
Scale		Sheet	0 OF 4

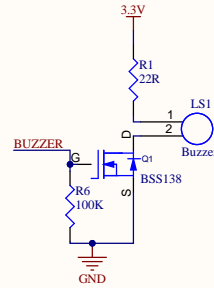
BATTERY SECTION



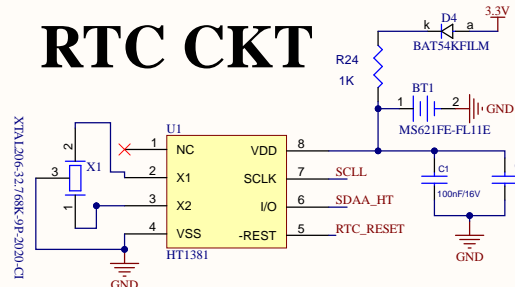
BATT



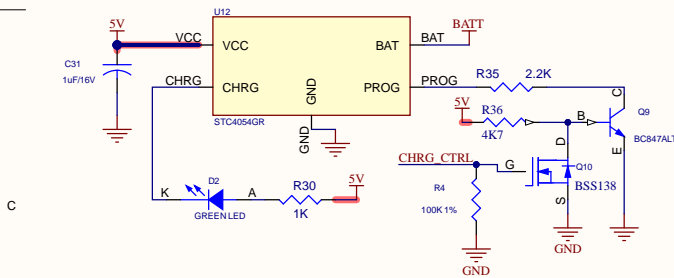
BUZZER



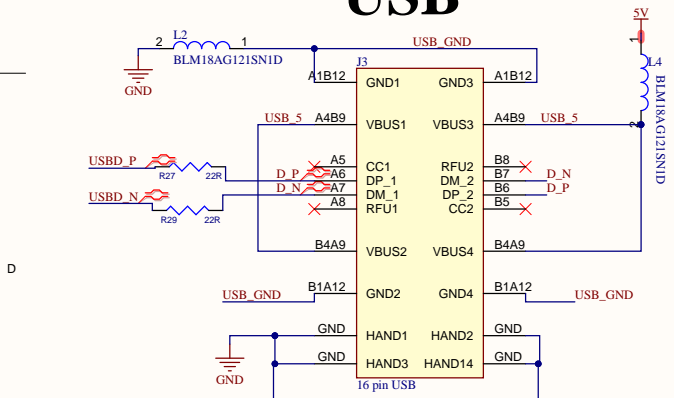
RTC CKT



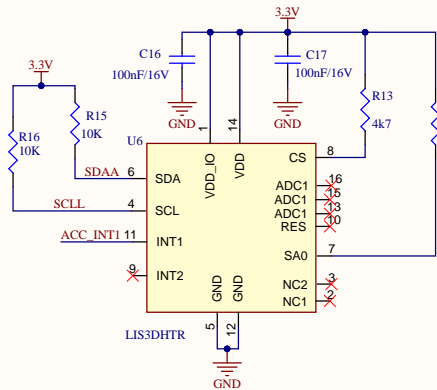
CHARGING



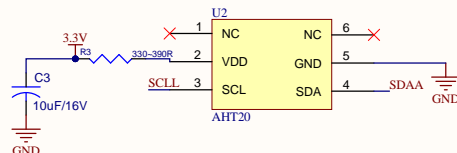
USB



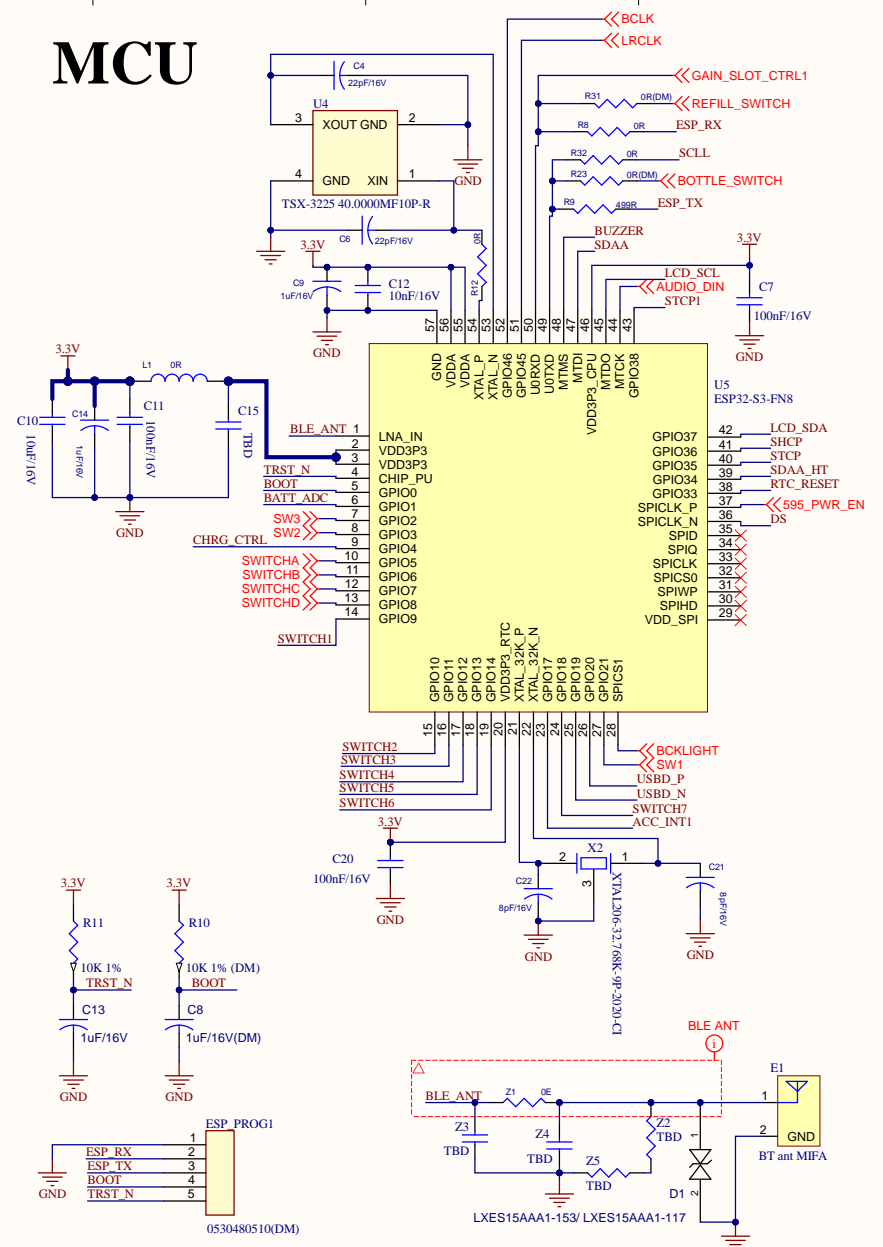
ACCELERO



TEMP SENSOR



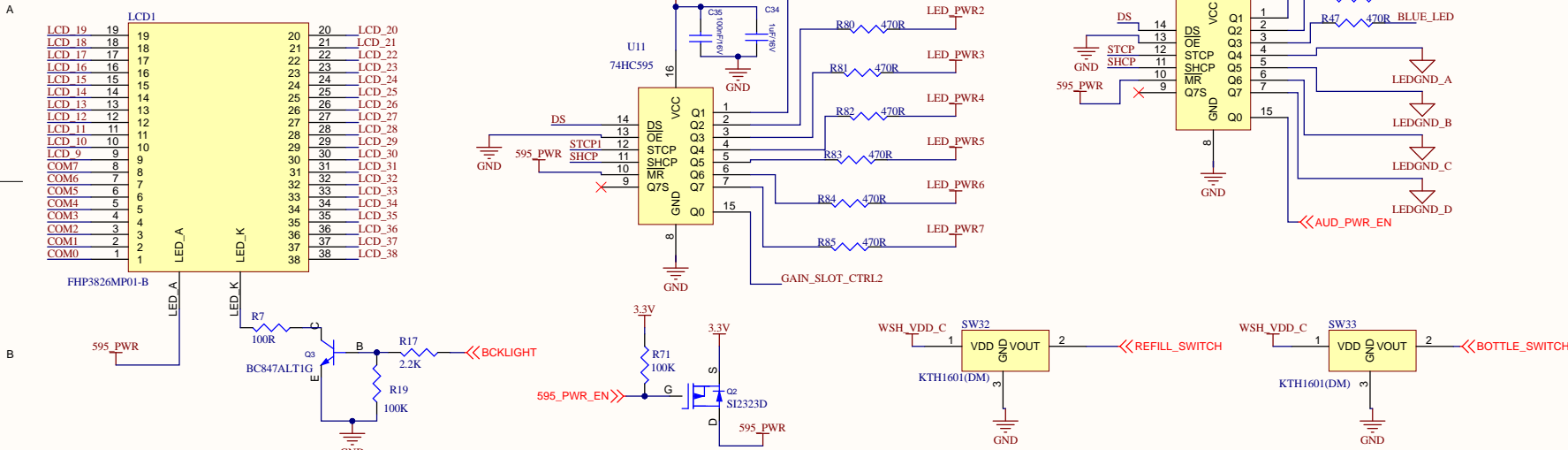
MCU



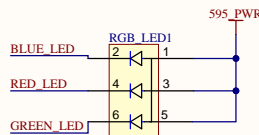
PB_A_1.3.2

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A3			
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7-SEGMENT SEGMENT DISPLAY

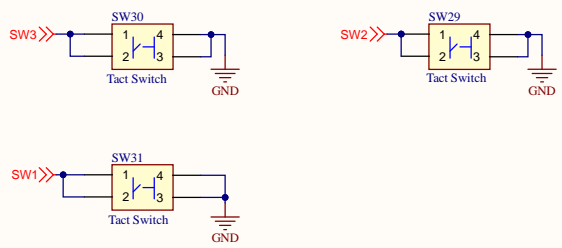


LED



RGB LED added for -
1. Wrong Time
2. ALert
3. Low Battery

SWITCHES



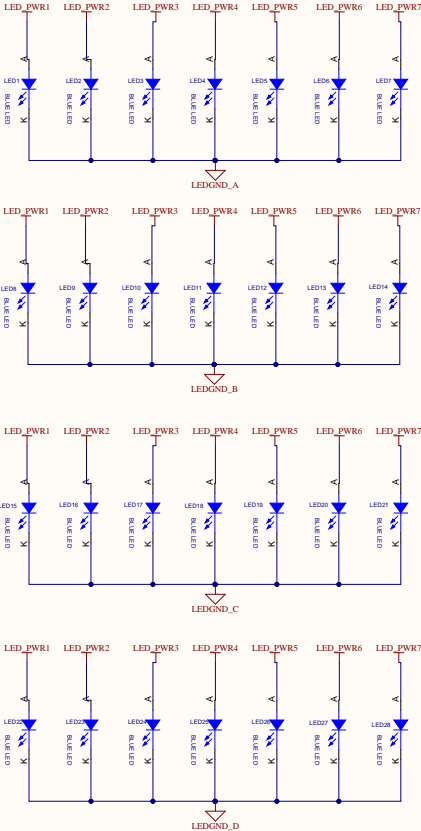
AUDIO AMP



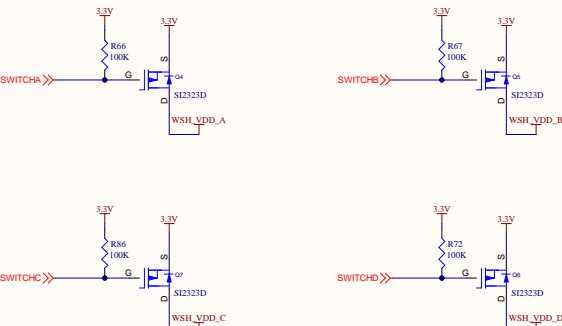
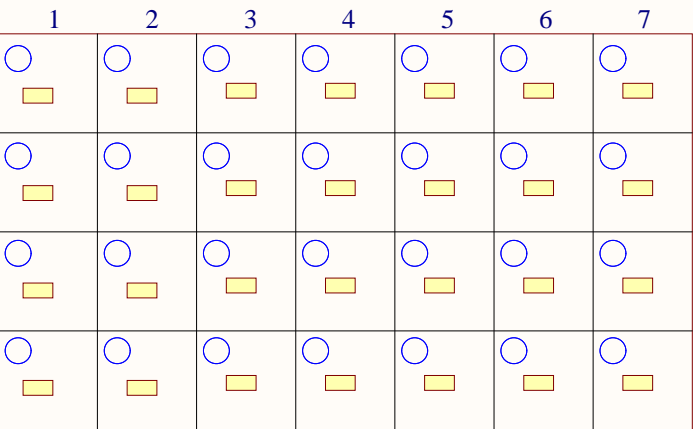
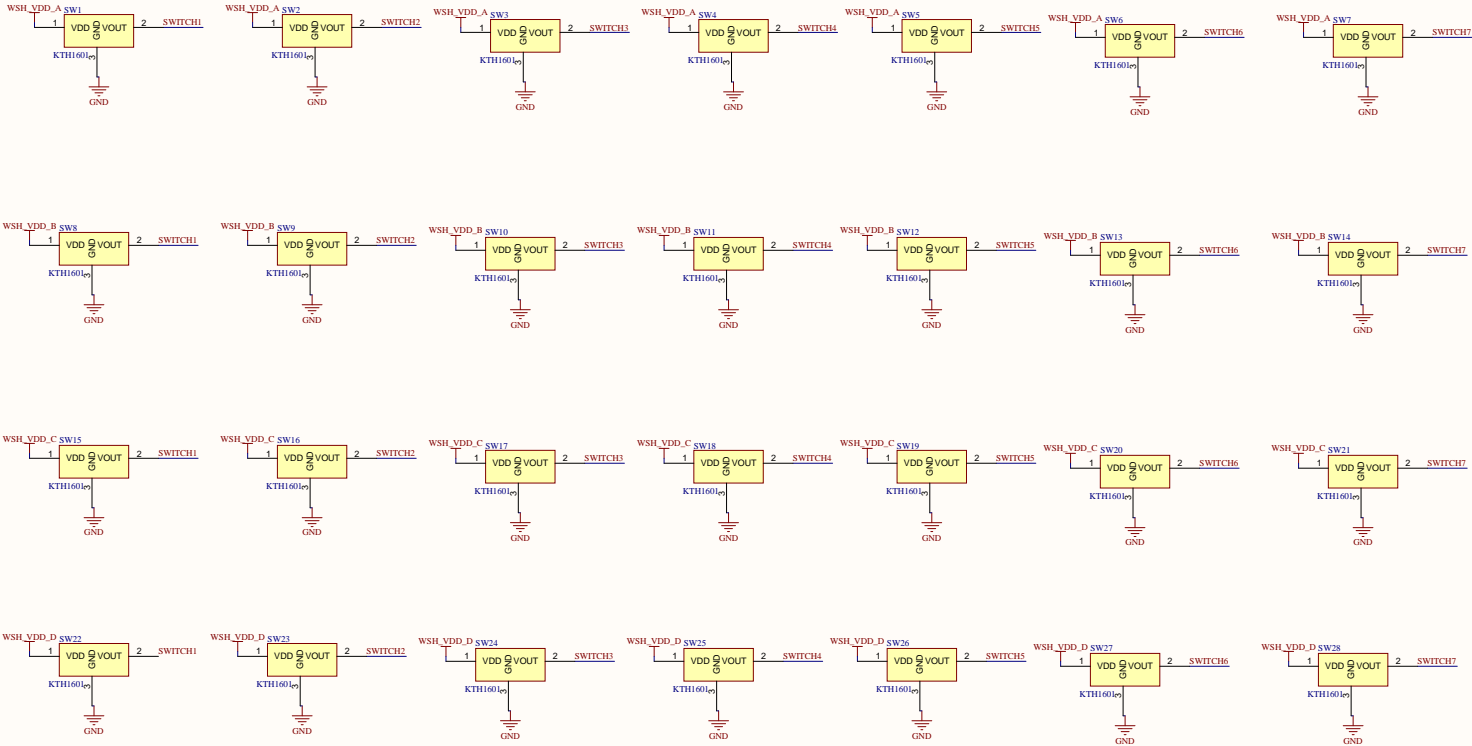
PB_A_1.3.2

Size A3	FCSM No.	DWG No.	Rev
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LED



MAGNETIC SWITCH



PB_A_1.3.2