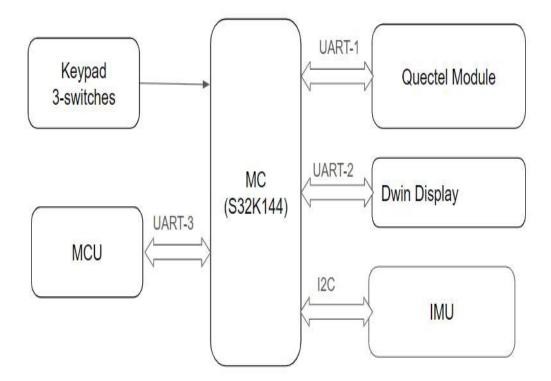
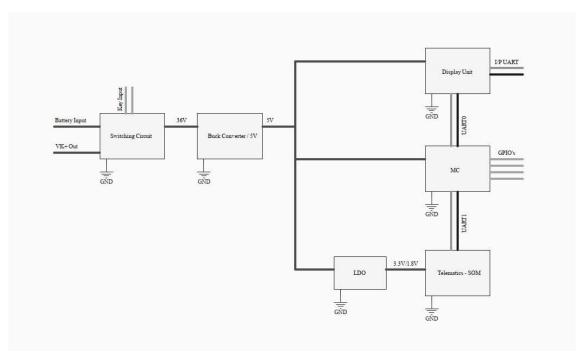
Amigo Scope of work

Date: 8/05/2024

Scope: Developing the display which communicates with the Emotorad MCU unit.

Hardware Block:





Software Implementation requirements:

1) Keypad:

- a) Powering ON the system using the power key
- b) Using up and down selecting the menu and other features (Walkmode, Cruisemode, Headlamp ON/OFF and other controls)

2) Dwin Display:

- a) Showing the speed, Battery voltage and current.
- b) Cruise and walk status
- c) Headlamp status
- d) Parameter settings
- e) PAS settings
- f) ODO display
- g) Trip distance
- h) Trip duration
- i) Navigation (Left/right turn)
- j) UART communication with the S32k144

Note: Above Dwin display work with GUI based software build module (Dgus software).

For more information please refer to : https://www.dwin-global.com/dgus/

3) Quectel Module (SOM)

- a) UART communication with the S32k144
- b) Communicate with the cloud using the AT commands
- c) Get the latitude and longitude and send it to cloud in format(Format needs to be discussed with the backend team)
- d) Receive the date from the cloud.

4) MCU

- a) UART communication with the S32k144 (Baud rate -9600bps)
- b) Get the speed time and display it
- c) Send the PAS, walk mode, cruise and headlamp setting to MCU in a format (As per M5 display format)
- d) Send ignition control related data to MCU

5) IMU

- a) I2c implementation to communicate with the S32k144.
- b) Read the IMU data and process as per the data (if any unwanted data, send information to cloud)