Hardware user-guide for remote access of main ECU

# Preface

This document contains the features , connectors , pinouts , schematic design ,block diagram , hardware specification and board specifications.

# 1)Introduction

## Overview:

This board contains a Epaper display , ESP32 , boot and reset buttons and a Bluetooth interface.

## Features

* E-paper display
* Esp32
* Bluetooth
* Powered by 12V

# 2)Board specification

## Electrical specifications

Operates at 12V , 2A current limit are given through fuses

## Mechanical specifications

60 mm x 80 mm ( leading Bluetooth , Display in the back of the board)

# 3)Hardware Overview

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Main MCU : ESP32 wroom 32

## Connector:

1)Bluetooth – 4pins – interface through UART

1. VDD
2. GND
3. Tx\_BL – IO 16 ( Tx to Tx)
4. Rx\_BL – IO 17 (Rx to Rx)

2)E-paper display

1. SDA – IO21
2. SCL – IO22
3. BUSY – IO23
4. RES – IO25
5. CS – IO26
6. DC – IO27

3)3 switch

1. IO12 – PB2
2. IO13-PB3
3. IO14-PB4

## PCB Picture

## A green circuit board with white and blue components Description automatically generated

## Revision - NONE