

Right Body Control Module (BCM (ECU)) : Xiaomi SU7 PCB Circuit Analysis Report



Xiaomi SU7 (from Web info)

<https://hu.motor1.com/news/703064/xiaomi-su7-onallo-parkolas-video/>



Overview of Integrated ECU (BCM RH)



Main PCB

Report Outline

Xiaomi, the Chinese electrical appliance maker announced its first battery electric vehicle (BEV) Xiaomi SU7 in March 2024.

Body Control Module (BCM) is also called integrated electronic control unit (ECU), which manages the power supply of ECU scattered around vehicles collectively

There are many advantages such as efficient control of installed sensors and motors, and reduction of wiring harness. Many manufacturers are moving in the direction of adoption.

The Xiaomi SU7 is equipped with Left Unit, Right Unit, Front Unit three types of BC. It is assumed that the unit manages the same e-Fuse as TESLA.

This is a detailed circuit analysis report of right body control module (BCM (ECU)) installed in Xiaomi SU7 with grade Max. This report clarifies what functional blocks are configured.

Report contents (1)

- Major components from leading manufacturers such as Infineon Technologies, Texas Instruments, and STMicroelectronics are used for the ICs and discrete components.
- Press-fit pins are adopted for power input terminals and connectors
- The design includes land for mounting communication ICs, enabling expandable communication functionality.
- Equipped with ICs similar to Left Unit.
- Differences from Left Unit in power supply circuit configuration and part of the circuitry.

Report contents (2) (87 Pages)

1. Product disassembly and investigation of components mounted on the PCB
 2. Layer-by-layer wiring layout and circuit connection information (netlist, viewer tool) Connection tracking between components is possible
 3. PCB circuit diagram and block diagram
- **Delivered one week after order placement**
 - **Please contact us for report pricing.**

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