

## Right Body Controller (ECU): TESLA CYBERTRUCK Teardown Report

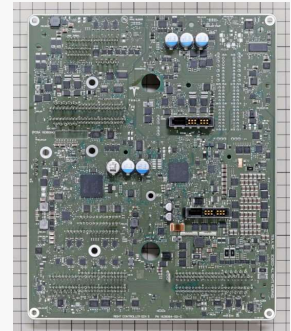


**CYBERTRUCK (from Web info)**

<https://hypebeast.com/jp/2022/7/cybertruck-delivery-mid-2023-date-news-info>



**Overview of Integrated ECU (Right)**



**PCB (Top View)**

### Overview

TESLA announced CYBERTRUCK in November 2023.

The price of the vehicle is about \$70000 for the rear-wheel drive (RWD) model, and about \$0.1 million for the highest performance version, the CYBERBEAST. This automobile has attracted attention because of its unique exterior, but it also has a variety of new techniques as the newest model in TESLA. (The company's first 800V system. The auxiliary battery uses 48V system.) As the main controller modules, there are two door controller ECUs for front and rear, and three body controller ECUs for right, left, and rear.

This is a teardown report of Right Body Controller (ECU) installed in RDW model.

### Product features

- Size : 300mm (W) × 325mm (L) × 75mm (H), Weight : 2.1kg
- Air cooling
- 63V is the maximum rated voltage of all the mounted aluminum electrolytic capacitors.
- The PCB is constructed using a large number of ceramic capacitors common in TESLA vehicle.
- Presumably connected to EPS, HAVAC etc.

EPS: Electric Power Steering

HAVAC: Heating Ventilation and Air-Conditioning

### Report Contents (20 pages)

- Product teardown, parts measurement (size & weight)
- Identification of key ICs on the PCB (including datasheet, if we found).

### Report price

**Delivery one week after order placement**

**Please contact us for report pricing**

**Note: PCB circuit analysis report is being prepared.**

**Please contact us , if you are interested in circuit analysis report.**

## Table of Contents

Page

### Summary

Table 1

Product Information

...

3

### Product Teardown

Product Overview

...

4

Installation Status 【Frame Unit】

...

5

Installation Status 【Cushion Parts】

...

6

Installation Status 【Screw】

...

7

Installation Status 【Frame】

...

9

Installation Status 【PCB Cover】

...

10

Installation Status 【ECU (right) PCB】

...

11

Installation Status 【Housing】

...

12

### Overview

Fig. 1

Overview of ECU (right) PCB

...

13

Fig. 2-1

Identification of Key ICs (manufacture, function, etc.) on ECU (right) PCB 1(Top View)

...

14

Fig. 2-2

Identification of Key ICs (manufacture, function, etc.) on ECU (right) PCB 2(Top View)

...

15

Fig. 2-3

Identification of Key ICs (manufacture, function, etc.) on ECU (right) PCB 3(Top View)

...

16

Fig. 2-4

Identification of Key ICs (manufacture, function, etc.) on ECU (right) PCB 4(Top View)

...

17

Fig. 2-5

Identification of Key ICs (manufacture, function, etc.) on ECU (right) PCB (Bottom View)

...

18

Fig. 3

Moisture-Proofed Area of ECU (right) PCB

...

19

### Connection

Fig. 4

Connection Diagram

...

20

