



The diagram illustrates a system architecture centered around a Microcontroller Unit (MCU). The MCU is connected to various components:

- Power Management:** A 3-pos switch controls power to the BMS, USB-C, and the MCU. The USB-C provides 5V power, which is regulated by a 3.3V Buck converter to provide 3V3 power to the MCU, Ambient Light Sensor, and LCD Connector. A 5V regulator provides 5V power to the MCU, Motor Driver, and Strain Sensor.
- Data Flow:** The MCU is connected to the BMS (3V7), Battery Connector, Keypad, and several sensors (Ambient Light Sensor, LCD Connector, Motor Driver, Magnetic Encoder, Strain Sensor) via data lines. Two multiplexers (Mux) are used to route data from the USB-C and 5V regulators to the MCU.
- Control:** The MCU controls the Motor Driver and the Strain Sensor.

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