

Battery connector

The diagram illustrates a battery connector circuit. It features three 3A fuses (F1, F2, F3) connected to three ACCU inputs (ACCU1, ACCU2, ACCU3). These inputs are connected to a 5-pin connector (J14). The circuit also includes two 1M resistors (R10, R11), a Zener diode (D12, 3V3), a 100nF capacitor (C14), and an output labeled 'ADC. accu'.

MCU connector

Power connector

Uin interface

The schematic diagram illustrates the Uin interface, which includes two input channels, ADC Uin1 and ADC Uin2, connected to a USB interface and a charge source.

ADC Uin1: This channel is connected to the +5V_USB line. It features a 3A SR (Schottky Rectifier) diode (F8) and a 1M resistor (R6) in series. The output is connected to a 1M resistor (R7) and a 100nF capacitor (C12) in parallel, which is then connected to the ADC Uin1 input. A +5V charge source (J8) is also connected to the input line.

ADC Uin2: This channel is connected to the U_ext_chg line. It features a 3A SR (Schottky Rectifier) diode (F5) and a 470K resistor (R9) in series. The output is connected to a 3M resistor (R8) and a 100nF capacitor (C13) in parallel, which is then connected to the ADC Uin2 input. A +5V charge source (J9) is also connected to the input line.

USB Interface: The USB interface is shown as a 6-pin connector (J7) with pins labeled vBUS, D-, D+, ID, GND, and Shield. It is connected to the +5V_USB line and the +5V charge source (J8).