

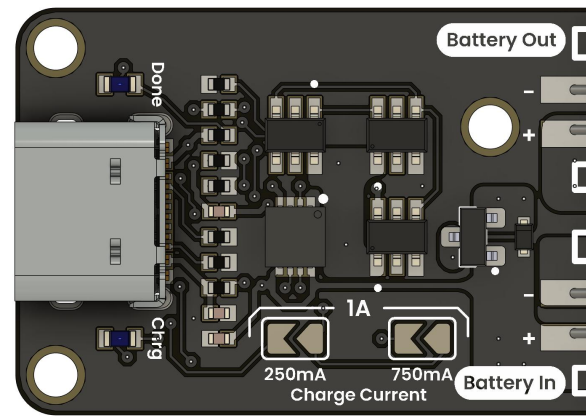
CN3165 battery charger module Product Brief

This compact printed circuit board functions as both a single-cell Li-Ion battery charger and a power-out module

Version: 1.0 Modified: 2025-05-02

Introduction

This compact printed circuit board functions as both a single-cell Li-Ion battery charger and a power-out module. It features a USB-C interface that accepts a stable 5 V supply from sources such as PCs, charger bricks, or power banks, and includes an on-board charger IC that supports charging currents of 250 mA, 750 mA, or 1 A. Additionally, two dedicated screw-terminal outputs provide a secure pathway for charging (Battery In) and deliver battery voltage to a load even during charging (Battery Out), making it suitable for portable applications that demand simultaneous charging and power delivery.



Functional Description

- The USB-C port accepts a 5 V supply from PCs, charger bricks, or power banks.

Electrical Characteristics

- **Input Voltage:** 5 V (USB-C)

Features

- USB-C power input

Applications

- Battery charger for single-cell Li-Ion batteries
- Power supply for low-power devices

Settings

Interface Overview

Interface	Signals / Pins	Typical Use
-	-	-

Supported Pins

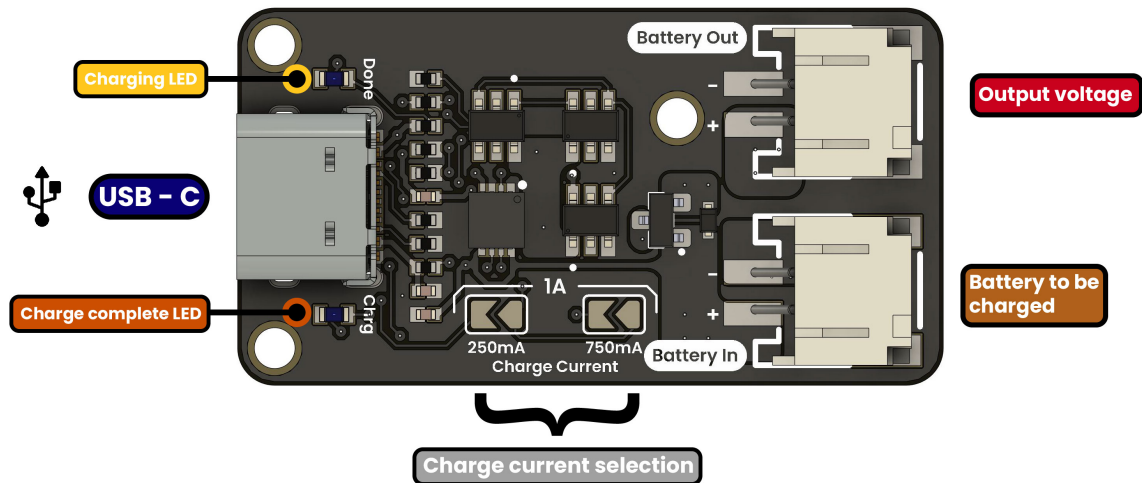
Symbol	I/O	Description
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Pin & Connector Layout

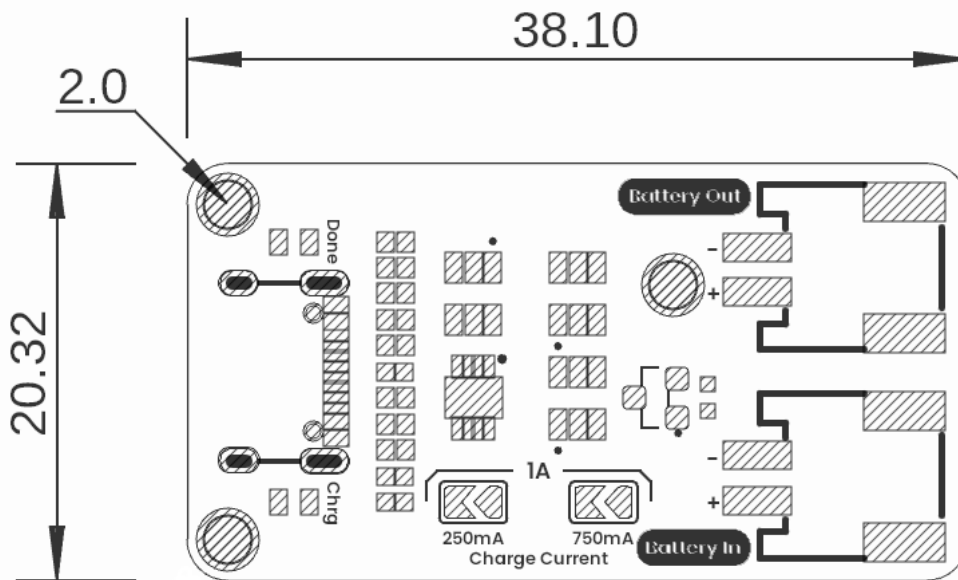
Component	PCB Label	Description
USB-C Connector	USB IN	5 V power input from USB-C source
Connector	Battery IN	Screw terminals for connecting the Li-ion cell
Connector	Battery Out	Screw terminals for outputting battery voltage
CHRG LED	CHRG	Indicator LED: on during the charging phase
DONE LED	DONE	Indicator LED: on when the charging cycle completes

Block Diagram

Battery charger



Dimensions



All dimensions expressed in millimeters (mm)

Usage

Downloads

- Schematic PDF

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