

PMP8851

Automotive USB Battery Charging Reference Design

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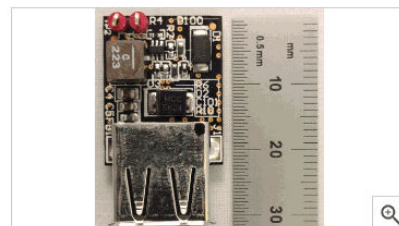
Overview

[Description & features](#) | [Design parameters](#)

This USB battery charging reference design is optimized for size in order to fit within an automobile power accessory port. The design features a USB dedicated charging port controller with integrated current limiting power switch and a 42V DC/DC converter. High integration and small package sizing allows a small form factor.

Features

- Typical 13.6V input from car battery. Withstands 45V transients
- Accurate current limit (+/- 10%)
- Design provides up to 2.1A output current at 5V output
- Supports BC 1.2 Dedicated Charging Port specification
- Small 32mm x 16mm form factor
- Design has been built and tested.



A fully assembled board has been developed for testing and performance validation only, and is not available for sale.