

Automotive, 12V Input, Two-Port USB Power Delivery With Single Power Stage Reference Design



Description

This reference design is a 60W automotive charger for dual USB Type-C® and USB power delivery (PD) port. The board input is a 12V battery. The design uses single buck-boost converter TPS55x89-Q1 for dual-port power supply which reduces the BOM cost, TPS2674x-Q1 is used as a dual USB Type-C PD controller.

Resources

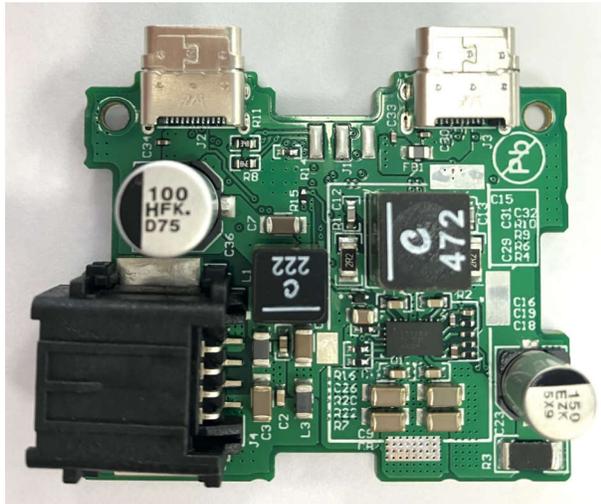
PMP41172	Design Folder
TPD4S201-Q1	Product Folder
LM74700-Q1	Product Folder
TMP61-Q1	Product Folder

Features

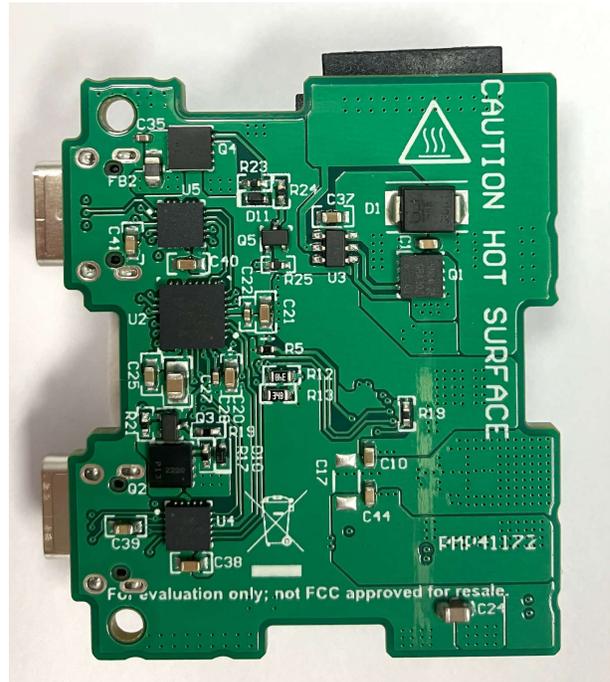
- 12V battery system
- Dual port USB PD charging using a single DCDC
- Supports power management up to 60W
- Small form factor of 45mm × 35mm

Applications

- [Automotive USB charging](#)



Top of Board



Bottom Photo

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