

QC3.0 Dual-Port Vehicle USB Buck Module

6-32 V input fast-charge converter with two USB outputs



Product Overview

A compact power-electronics module documented from the supplied archived product page. The specifications below separate confirmed ratings from operating guidance and identify the exact module variant where the source page contains multiple options.

Electrical and Mechanical Specifications

Parameter	Value
Input voltage	6-32 VDC
USB outputs	Two Type-A ports
Default output	5 VDC
Negotiated output	Automatically adjusts between 3 and 12 V after fast-charge negotiation
Rated output examples	5 V / 3.4 A; 9 V / 2.5 A; 12 V / 2 A
Conversion efficiency	90-97%
Protection	Input over-voltage, under-voltage, over-current, output over-current, short-circuit and over-temperature

Key Features

- Dual USB fast-charge outputs
- QC3.0 and multi-protocol support
- Wide 6-32 V input
- High-efficiency buck conversion

Operating Notes

- Fast-charge voltage depends on device negotiation.
- The saved page presents several board variants; this sheet identifies the photographed dual-port configuration.
- Provide an input fuse and adequate ventilation.

Application and Connection Guide

APPLICATION & CONNECTION

VEHICLE DC INPUT

6-32 VDC



TWO USB DEVICES

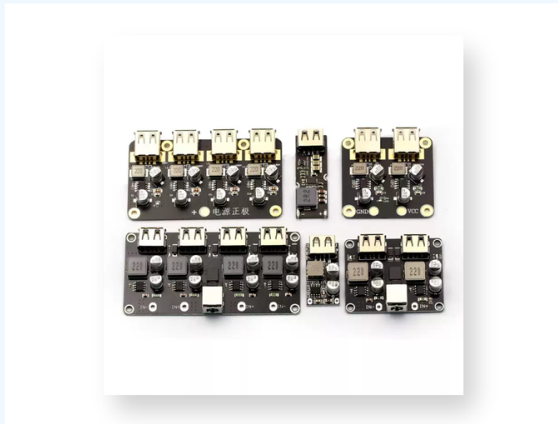
QC negotiated output

Verify polarity and configure voltage/current before connecting the load.

Connection Sequence

1. Confirm the input source is within the stated range. 2. Verify input and output polarity. 3. Configure voltage and current limits with the load disconnected. 4. Connect the load or battery. 5. Monitor temperature during initial operation.

KEY PRODUCT ADVANTAGES



- 1 **Dual USB fast-charge outputs**
- 2 **QC3.0 and multi-protocol support**
- 3 **Wide 6-32 V input**
- 4 **High-efficiency buck conversion**