

# QC3.0 Four-Port Vehicle USB Buck Module

6-32 V input fast-charge converter with four 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           | Four 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 |
| Dimensions            | Approximately 90 x 45 mm                                                                                 |

## Key Features

- Four independent USB outputs
- QC3.0 and multi-protocol fast charging
- 6-32 V vehicle input range
- Comprehensive electrical protection

## Operating Notes

- Fast-charge voltage is negotiated by the connected device.
- Use a fused input appropriate to the wiring and total load.
- Mount with clearance for airflow and insulation.

# Application and Connection Guide

## APPLICATION & CONNECTION

### VEHICLE DC INPUT

6-32 VDC



### USB DEVICES

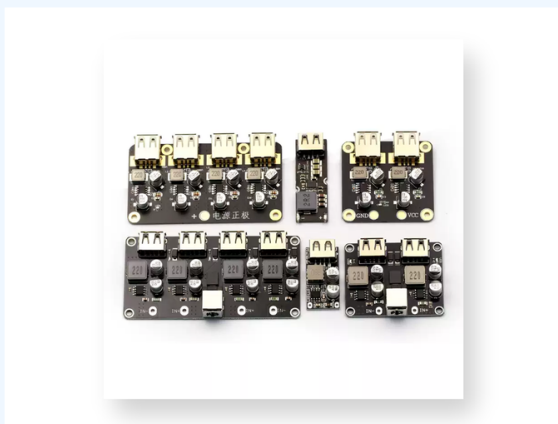
QC negotiated output

**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 Four independent USB outputs**

**2 QC3.0 and multi-protocol fast charging**

**3 6-32 V vehicle input range**

**4 Comprehensive electrical protection**