3 A Dual-USB 5 V Vehicle Buck Converter

9 V / 12 V / 24 V to 5 V dual-port charging module

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
Conversion type	DC-DC buck converter
Supported source classes	9 V, 12 V and 24 V systems
Output voltage	5 VDC
Output current class	Up to 3 A total
Output ports	Two USB Type-A
Application	Vehicle and embedded USB charging

Key Features

- Dual USB charging ports
- 5 V / 3 A output class
- Wide vehicle-system compatibility
- Compact integrated module

Operating Notes

- Total current is shared by both USB ports.
- Confirm input polarity before power-up.
- Thermal performance depends on enclosure airflow.

Application and Connection Guide

APPLICATION & CONNECTION

9 / 12 / 24 V INPUT

Vehicle DC

USB DEVICES

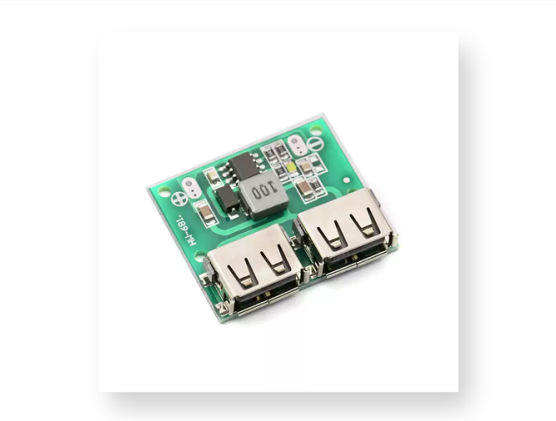
5 V output

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 charging ports**
2. **5 V / 3 A output class**
3. **Wide vehicle-system compatibility**
4. **Compact integrated module**