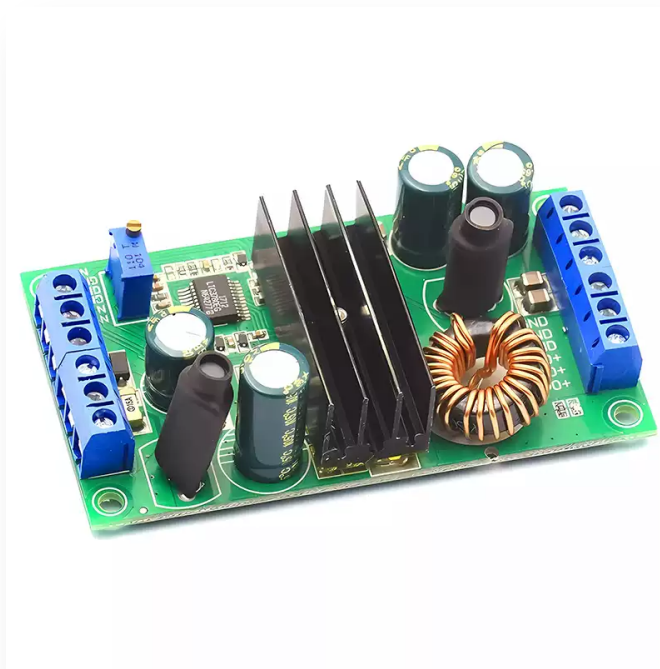


LTC3780 14 A Automatic Buck-Boost Converter

High-power adjustable regulator for vehicle and computer applications



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
Controller	LTC3780
Topology	Automatic non-isolated buck-boost converter
Maximum current class	14 A
Output	Adjustable regulated DC voltage
Regulation	Automatic step-up and step-down operation
Adjustment	Multi-turn output-voltage control
Cooling	Large integrated heatsink
Connections	High-current screw terminals

Key Features

- Automatic buck-boost operation
- 14 A current class
- LTC3780 controller
- Large heatsink and terminals

Operating Notes

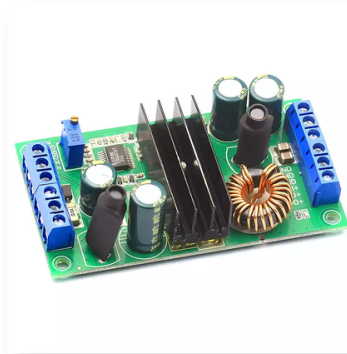
- The saved page does not expose a reliable complete voltage range.
- Set output voltage before connecting the load.
- High-current operation requires airflow and low-resistance wiring.

Application and Connection Guide

APPLICATION & CONNECTION

VARIABLE DC INPUT

Battery / vehicle bus



REGULATED DC LOAD

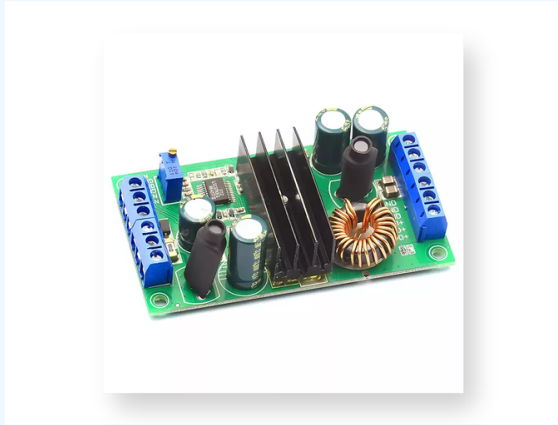
Adjusted output

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 Automatic buck-boost operation

2 14 A current class

3 LTC3780 controller

4 Large heatsink and terminals