

Optocoupler relay module principle and price



Overview

Relay Module Optocoupler: Schematic and Working Explained This article shares the Relay Module Optocoupler Schematic and Working principle. Cheap DIY relay.

Key Takeaways

Optocoupler relay modules typically cost between \$5 and \$30 per module, depending on the number of relays, voltage rating, and features. Price Range and Factors

- Single or small relay modules (1–2 relays, 3.3V/5V logic compatible) generally cost around \$5–\$10 per module on platforms like Amazon .
- Multi-relay modules (e.g., 5V x 8 relays with opto-isolation) are priced around \$15–\$30, depending on the supplier and specifications .
- Industrial-grade modules from suppliers like WAGO or Mouser may cost more, often \$20–\$50 or higher, due to higher reliability, DIN-rail mounting, and safety certifications .

Key Considerations

- Number of relays: More relays per module increase the cost.
- Voltage and current ratings: Modules rated for higher AC or DC loads are more expensive.
- Opto-isolation: Modules with built-in opto-isolators for electrical isolation typically cost slightly more but provide safer interfacing with microcontrollers.

- Supplier and shipping: Prices vary between distributors like Mouser, DigiKey, Amazon, and ProtoSupplies, and bulk orders may reduce per-unit cost .

Example Modules

- Amazon: 10-pack of 6N138 or 4N35 optocouplers for DIY electronics projects, costing around \$5-\$10 per pack .
- ProtoSupplies: 5V x 8 relay module with opto-isolation, suitable for Arduino or microcontroller projects, priced around \$20-\$25 .
- Mouser/DigiKey: Industrial optocoupler relay modules with datasheets and higher reliability, prices vary widely depending on specifications . In summary, for hobbyist or small-scale projects, expect to pay \$5-\$25 per module, while industrial-grade modules can cost \$20-\$50 or more depending on features and certifications.

Article Content

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Relay Module Optocoupler: A Comprehensive Review and Guide

Answer: A relay module with optocoupler is an electronic component that allows low-voltage circuits to control high-voltage circuits

SunFounder 2 Channel DC 5V Relay Module with Optocoupler Low

When the signal port is at high level, the normally closed contact of the relay will be closed. So you can connect and disconnect the

1-Channel Optocoupler Isolated Relay Module

1-Channel Optocoupler Isolated Relay Module 10A (5V / 12V / 24V) This versatile 1-Channel Relay Module is an essential interface

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

