

How much does the 1310 optical module cost

Article Overview

A standard 1310 nm optical module typically costs between \$185 and \$220 USD.

Price Overview

1310 nm optical modules are widely used for short-to-medium distance fiber optic communication, making them more cost-effective than 1550 nm modules, which are designed for long-haul applications . The typical cost per module ranges from \$185 to \$220 USD, depending on factors such as data rate, transmission distance, and manufacturer . In comparison, 1550 nm modules generally cost between \$310 and \$450 USD due to their long-distance capabilities and DWDM support .

Factors Affecting Cost

- o Transmission Distance: Standard 1310 nm modules support distances up to 10 km, while extended models can reach up to 40 km. Longer distances may slightly increase the price .
- o Data Rate: Modules supporting higher speeds (10G, 25G, 100G) are more expensive than 1G modules .
- o Laser Type: FP lasers are common for 1G/2.5G modules, while DFB lasers are used for 10G and above, which can affect cost .
- o Compatibility: Modules compatible with major switch brands like Cisco, Huawei, Juniper, and Dell may carry a premium due to certification and testing .
- o Environmental Grade: Industrial-grade modules for outdoor or telecom use (-40°C to 85°C) are typically more expensive than standard indoor modules .

Cost Efficiency

1310 nm modules are considered cost-effective for metro, campus, and enterprise networks because they balance performance, reliability, and total lifecycle cost. They require less maintenance and rarely need post-amplification for distances under 30 km, further reducing operational expenses .

Summary

For most standard applications, you can expect to pay \$185-\$220 USD per 1310 nm optical module, with the final price influenced by speed, distance, and environmental requirements. Choosing 1310 nm modules is generally the most economical option for short-to-medium range fiber optic networks .

The original module is reliable but the price is too high, compatible module is cost-effective, comparable to



How much does the 1310 optical module cost

the original

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In summary, there are differences between optical modules of different wavelengths in terms of operating frequency

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the 1310-nm

8. Digital Diagnostics / Digital Optical Monitoring The transceiver provides serial ID memory contents and diagnostic information

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