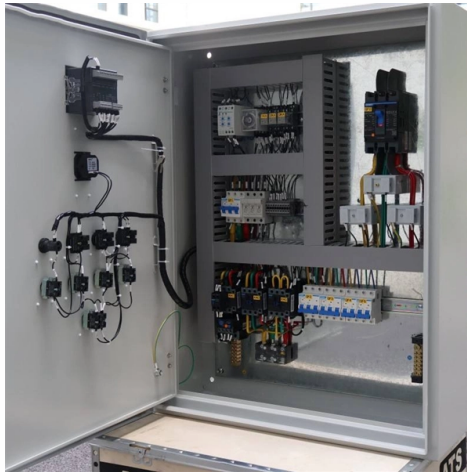


How much does a pluggable optical module QSFP28 cost



Article Overview

QSFP28 optical modules typically range from \$150 to over \$2,000 depending on type, reach, and vendor.

Price Ranges by Module Type

- Short-Range (SR4) Modules: Designed for data center links up to 100 meters over multimode fiber, these modules are generally the most affordable, with prices typically around \$150–\$400 per unit (Cables on Demand, DigiKey) .
- Long-Range (LR1) Modules: Single-mode fiber modules supporting distances up to 10 km are moderately priced, usually \$400–\$800 per unit .
- Digital Coherent Optics / ZR Modules: High-performance coherent QSFP28 modules, such as Cisco 100G ZR, support metro and regional networks with distances up to 80–300 km. These modules are significantly more expensive, often \$1,500–\$2,500 or more per unit depending on vendor and features .

Factors Affecting Price

- Transmission Distance: Longer reach modules (LR, ZR, coherent) cost more due to advanced optics and signal processing.
- Technology Type: PAM4 QSFP28 modules are optimized for short-range, low-power applications and are cheaper, while coherent modules with wavelength tunability and extended reach are more expensive .
- Vendor and Brand: Original equipment manufacturer (OEM) modules from Cisco, Finisar, or Huawei are priced higher than third-party or compatible modules from su...

Article Content

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Get diverse armored fiber patch cables for stronger protection of the optical fibers and stable transmission to support fiber optic

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A complete guide to 100G QSFP28 transceivers covering types, specs, reach, compatibility, and how to choose the right module for

Understanding Pluggable Optical Modules

A CXP optical module is a hot-pluggable high-density parallel optical module, which provides 12 channels of traffic in each of the Tx

Pluggable Module

The platform itself will not get any larger so what is required is to pack more, higher-capacity pluggable modules on a switch's front

Understanding QSFP28 Optical Modules: A Comprehensive Guide

Its cost is significantly higher than the QSFP28 PSM4 optical module. Through coarse wavelength division multiplexing (CWDM)

QSFP28 Loopback Modules (100G)

Our QSFP28 100G Loopbacks feature over 15 power (TDP) and attenuation options to duplicate the operational characteristics of

Contact Us

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