

Article Overview

The typical unit price for 800G optical modules ranges from \$700 to \$1,900 depending on type, form factor, and vendor.

Price Ranges by Module Type and Form Factor

- o 800G OSFP-DR8: \$1,100-\$1,400 per unit for volume orders of 1,000+ units .
- o 800G QSFP-DD-DR8: \$1,000-\$1,300 per unit for large-volume purchases .
- o 800G OSFP-FR4: \$1,500-\$1,900 per unit, suitable for longer reach applications .
- o 800G LPO (Linear Pluggable Optics): \$700-\$900 per unit, lower cost due to no DSP .

Factors Affecting Pricing

- o Vendor Tier: OEM modules (e.g., Cisco, Arista) typically cost 30-50% more than third-party compatible modules .
- o Volume Discounts: Orders over 1,000 units may receive 10-20% discounts, while orders over 5,000 units can get 20-30% off .
- o Technology Maturity: Early-generation modules can cost 40-60% more than mature products .
- o Customization: Special wavelengths, extended temperature ranges, or additional testing can add 15-30% to the base price .
- o Market Dynamics: Supply constraints or high demand can temporarily increase prices by 20-40% .

Additional Considerations

While the unit price is a key factor, total cost of ownership (TCO) also includes associated infrastructure costs such as 800G switches (\$150,000-\$250,000 per 64-port switch), fiber cabling, patch panels, cable management, and testing equipment . Moreover, thermal management and DSP power draw in 800G modules can impact operational costs, especially in high-density AI or hyperscale data centers . In summary, for standard 800G DR8 modules, expect prices around \$1,000-\$1,400 per unit, with lower-cost LPO options at \$700-\$900 and longer-reach FR4 modules at \$1,500-\$1,900, while OEM and early-generation modules may command higher premiums.

This report profiles key players in the global 800G Optical Module PCB market based on the following parameters - company

The cost of an 800G module is approximately 2-3 times that of a 400G module, but prices

800g optical module actual price

Would you like to tell us about a lower price? Built-in Broadcom 7nm DSP chip, the maximum power consumption is

This guide delivers clear, accurate pricing data. It breaks down the current costs for 400G and 800G modules,

Explore 400G and 800G optical modules with EML, VCSEL, and Silicon Photonics for data centers.

800G QSFP-DD800/OSFP optical module includes two architecture solutions, 2x400G and 8X100G. Its optical interfaces include

NADDOD 800G modules are crucial components for the next generation of high-performance data center networks. They feature

200G/400G/800G optical module features up to 40km transmission distances using QSFP56/QSFP-DD footprints for data center

QSFP-DD price guide with 400G/800G module costs, OEM vs third-party comparison, volume discounts, and 3-year

The 800Gb and beyond connectivity conundrum The global demand for high-speed optical modules is accelerating,

The next key development is 800G, and the industry is already gearing up to deploy this next generation of client optics in hyperscale

FS offers a growing portfolio of 800/400/200/100/40G optical transceiver modules and cables. The super-high density and backwards

Discover the evolution from 400G to 800G and 1.6T optical modules. Learn key technologies, CPO vs pluggable, and

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

800G light modules are optical transceiver modules that support transmission speeds of up to 800 gigabits per second

Compare optical modules for data centers and AI clusters. Learn key differences in standards, power, cabling, and

Web: <https://www.in-au.co.za>

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