

How much does the upgraded version of the Bahrain 800G optical module cost



Overview

QSFP-DD Price Guide 2026: 400G/800G Costs & TCO Analysis Pricing for 800G QSFP-DD modules is still finding its equilibrium. While reliable third-party optio.

Key Takeaways

The upgraded 800G optical modules, such as OSFP-DR8 and QSFP-DD-DR8, typically cost between \$1,000 and \$1,400 per unit, depending on volume, vendor, and module type. Price Ranges by Module Type

- 800G QSFP-DD-DR8: \$1,000–\$1,300 per unit for bulk orders of 1,000+ units .
 - 800G OSFP-DR8: \$1,100–\$1,400 per unit for similar volume pricing .
 - 800G OSFP-FR4: \$1,500–\$1,900 per unit, designed for longer reach and more complex optics .
 - 800G LPO (Linear Pluggable Optics): \$700–\$900 per unit, lower cost due to no DSP .
- Factors Affecting Cost
- Vendor Tier: OEM modules (Cisco, Arista) can carry a 30–50% premium over third-party compatible modules .
 - Volume Discounts: Orders over 1,000 units may receive 10–20% discounts, while orders over 5,000 units can get 20–30% off .
 - Technology Maturity: Early-generation modules cost 40–60% more than mature products .

- Customization: Special wavelengths, extended temperature ranges, or additional testing can add 15–30% to the base price .
 - Market Dynamics: Supply constraints can temporarily increase prices by 20–40% .
- Additional Considerations
- Infrastructure Costs: Deploying 800G modules also involves switches (\$150,000–\$250,000 for 64-port 800G switches), fiber cabling (\$20–\$150 per cable), patch panels (\$500–\$1,500 per 48-port panel), and cable management (\$2,000–\$5,000 per rack), .
 - Operational Costs: Testing equipment such as OTDRs (\$5,000–\$15,000), power meters (\$500–\$2,000), and inspection scopes (\$1,000–\$3,000) contribute to total cost of ownership . In summary, for a Bahrain 800G optical module upgrade, you can expect unit prices in the \$1,000–\$1,400 range for DR8 modules, with higher costs for FR4 or customized modules, and additional infrastructure and operational expenses depending on deployment scale and vendor choice .

Article Content

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Complete guide to 800G optical module costs and TCO optimization for AI data centers. Includes pricing analysis,

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This guide provides a deep-dive technical comparison of the three dominant 800G module form factors— SR8, DR8,

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In contrast, the 800G tends to use 5nm DSP and traditional hybrid packaging. Additionally,

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The 800G-ZR module, currently in the design phase, is expected to provide a reach of 100 km or more with 16-QAM

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A: The 1.6T module is the evolutionary version of the 800G, with core differences reflected in the technical architecture and

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The availability of the low price 800G transceiver is fundamentally changing the calculus of network investment for

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400G delivers four times the capacity of 100G at only 2.5 to 3 times the module cost, while 800G's incremental

400G vs 800G Optical Module: Which is Right for Your Network?

A deep technical comparison of 400G vs 800G optical module technology. Understand the key differences, benefits,

Comprehensive Guide to 400G/800G QSFP-DD Optical Modules

The 800G QSFP-DD optical module takes performance a step further by adopting higher-order PAM4 modulation at

Cisco OSFP 800G Transceiver Modules Data Sheet

The OSFP 800G transceiver modules are Cisco's new generation of pluggable transceiver modules based on the

Demystifying 800G Transceiver: Types, Applications, and FAQs

As the demand for faster data transmission continues to surge, 800G transceiver has gained significant attention due

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In summary, the surging demand for 800G and 1.6T optical modules—driven by AI computing clusters, hyperscale

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