

Price List for Low-Loss Optical Modules for Data Center Interconnection



Overview

See practical price ranges for 1G-100G optical transceivers, DAC/AOC options, and why cost varies by speed, reach and technology — buying tips included.

Key Takeaways

Low-loss tunable optical modules for DCI range from \$600 for 400G QSFP-DD modules to \$1,900 for long-reach 800G OSFP modules, with third-party alternatives often offering 20-50% savings. Typical Price Ranges by Module Type and Speed 100G QSFP28: Third-party short-reach modules can start as low as \$35, while OEM LR4/CWDM4 modules typically range from \$200-\$500 depending on reach and vendor support. 200G QSFP56 / QSFP-DD: Market prices generally range from \$600-\$1,000 for standard DCI-compatible modules, with long-reach or tunable variants at the higher end.

400G QSFP-DD: Coherent DCI modules are priced around \$600-\$800 for metro distances, with OEM modules commanding a premium. 800G OSFP / QSFP-DD: High-end tunable modules for long-reach DCI applications cost \$1,100-\$1,900, depending on reach (DR8 vs FR4), vendor tier, and volume discounts.

Factors Affecting Pricing

Vendor Tier: OEM modules (Cisco, Arista, Juniper) typically cost 30-50% more than third-party compatible modules. Reach and Technology: Modules with longer reach (FR4, ZR/ZR+) or tunable wavelengths are more expensive due to complex optics and coherent DSP technology. Volume Discounts: Large-scale deployments (1000+ units) can reduce per-unit cost by 10-30%.

Power and Cooling: Modules consume 3. 5–20W depending on speed and reach, impacting operational costs. **Support and Warranty:** OEM modules often include extended support and calibration, which can justify higher prices.

Practical ConsiderationsThird-party modules can provide significant cost savings without sacrificing interoperability, especially for CWDM4, LR4, and FR1 modules. Tunable coherent modules (e.g., Marvell COLORZ 400/800, GIGALIGHT DCO) are optimized for DCI, offering low latency, high density, and long-reach connectivity up to 2,000 km. **Deployment Costs:** Total cost includes not only the module but also cabling, patch panels, and monitoring software.

For example, a 200-port QSFP28 deployment may incur \$15,000–\$30,000 in cabling infrastructure.

Summary Table

Speed / Form Factor	Typical Price (USD)	Reach / Notes	OEM vs Third-Party
100G QSFP28 SR4	\$35–\$200	Short-reach, 100m–2km	Third-party cheaper
100G QSFP28 LR4/CWDM4	\$200–\$500	2–10km	OEM premium
200G QSFP56 / QSFP-DD	\$600–\$1,000	Metro DCI	OEM higher
400G QSFP-DD	\$600–\$800	Metro DCI	OEM premium
800G OSFP / QSFP-DD	\$1,100–\$1,900	Long-reach DCI	OEM 30–50% more

These ranges provide a practical benchmark for budgeting and procurement of low-loss tunable optical modules for data center interconnection, balancing performance, reach, and cost efficiency.

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