

Article Overview

Co-packaged photonics QSFP28 modules typically come with a manufacturer warranty of 1-3 years, covering defects in materials and workmanship, with some vendors offering extended support for high-reliability deployments.

Warranty Coverage

Most QSFP28 optical transceivers, including co-packaged photonics variants, are sold with warranties ranging from one to three years, depending on the manufacturer and distributor. A three-year warranty generally covers:

- o Defects in materials and workmanship
- o Failure under normal operating conditions
- o Replacement or repair of faulty modules It usually does not cover damage caused by improper installation, physical abuse, or environmental conditions outside the specified operating range.

Co-Packaged Photonics Considerations

Co-packaged photonics QSFP28 modules integrate optical components directly with switch ASICs or other high-speed electronics, reducing power consumption and improving signal integrity. While this integration enhances performance, it also means:

- o Warranty claims may require vendor-specific procedures
- o Compatibility verification is critical, as inserting third-party modules into locked-down platforms can void coverage or prevent operation
- o Environmental and thermal management must be maintained to avoid premature failure

Vendor Practices

Leading vendors like Source Photonics and NEC provide QSFP28 modules with factory-new packaging and full compliance with IEEE 802.3 standards, often including digital diagnostics and hot-swappable support . While explicit three-year warranties are not always listed online, many distributors offer extended warranty options or service contracts for enterprise deployments.

Practical Recommendations

- o Verify warranty terms with the vendor before purchase, especially for co-packaged photonics modules.



Three-year warranty co-packaged photonics QSFP28

- o Maintain proper installation and environmental conditions to ensure warranty validity.
- o Consider vendor-certified modules to avoid compatibility issues and ensure support for high-speed 100G networks .
- o Document serial numbers and purchase records to facilitate warranty claims if needed. In summary, a three-year warranty for co-packaged photonics QSFP28 modules is feasible and aligns with industry practices, but coverage depends on the vendor, module type, and adherence to operational guidelines. Ensuring proper installation and using certified modules maximizes reliability and warranty support.

BlazingFast Photonics delivers high-speed optical transceivers, silicon photonics, co-packaged optics, OSFP 1.6T modules, laser

Nevertheless, the most mature technology for such co-packaged solutions is still silicon photonics as an interposer. What is your

Since it was, I was able to go and check it out in person and tell you about it instead of just re-posting Intel's slides.

Overview Intel's Ethernet QSFP28 Optics are an excellent choice for fiber systems in high-speed communications equipment. Both

OFC 2025 made one thing clear: The transition to Co-Packaged Optics (CPO) switches in data centres is inevitable,

IDTechEx's "Co-Packaged Optics (CPO) 2026-2036" explores technical innovations and packaging trends,

Scale smarter with the 100ZR QSFP28 coherent transceiver to extend 100G reach, boost fiber to 9.6Tb/s, and cut costs using

QT-QSFP28-LR4 100G / Cisco / 10km / LC / SMF / QSFP28 US\$ 189.90 US\$ 299.00 6.6K Sold 75 Reviews

EE World discussed trends and tradeoffs in co-packaged optics and silicon photonics

1.6 Terabits Per Second Per Port Switches to Deliver 3.5x Energy Savings and 10x Resilience in AI Factories Joint

CPO switches are shipping in 2026. Learn how co-packaged optics work, which platforms



Three-year warranty co-packaged photonics QSFP28

SPQ-CE-ZR-CDFA (100GE) Form Factor: QSFP28 Data Rate: 103.1 Gb/s Reach: 80 km (with FEC)
Temperature: Commercial (C)

Hilink 3 Years Warranty QSFP28 100G DWDM 80KM Dual CS adaptor Transceiver. Certificates: CE/ROHS. Model Number:

Co-packaged optics (CPO) is a disruptive approach to increasing the interconnecting bandwidth density and energy efficiency by

Volex's QSFP28 passive direct attach copper cable features 4 transmitting and 4 receiving channels at 25 Gbps per channel speed.

Learn how co-packaged optics is reshaping data center networks by slashing power use and

Web: <https://www.kremgroup.co.za>

