Compatible Silicon Photonics Co-packaged Photonics Supplier in Spain



Overview

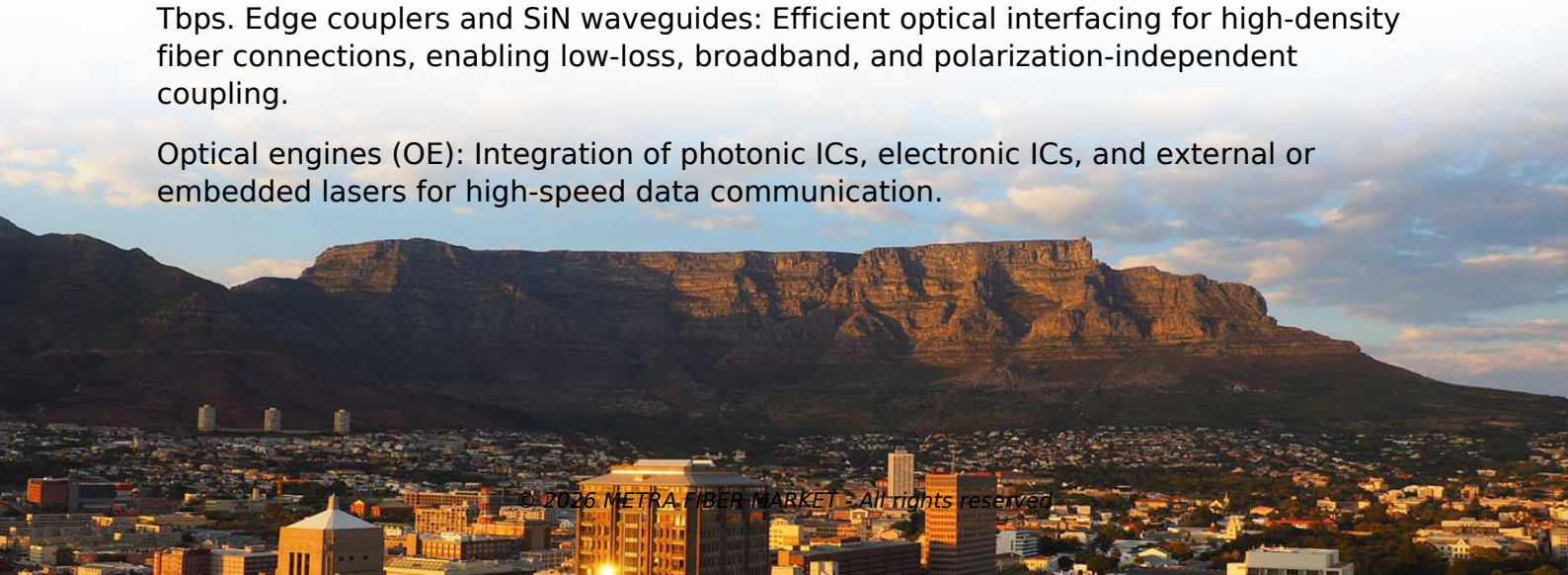
Co-Packaged Optics Supply Chain — Interactive Map (2026)Interactive field guide to the co-packaged optics (CPO) supply chain: InP laser, hybrid bond, silic.

Key Takeaways

Silicon photonics suppliers compatible with co-packaged optics (CPO) in Spain are likely specialized photonic integration companies or semiconductor packaging partners that support high-density optical engines and photonic ICs. Overview of Compatible TechnologiesCo-packaged optics (CPO) integrates photonic components directly with electronic ICs to reduce electrical interconnect lengths, improve energy efficiency, and enable high-bandwidth data transmission, particularly for AI/ML and HPC applications. Silicon photonics (SiPh) serves as the medium for light transmission, allowing integration with CMOS processes and enabling compact, high-density photonic integrated circuits (PICs) capable of filtering, modulation, and optical I/O.

Key features of compatible silicon photonics solutions include: On-board optics (OBO): Optical engines populated around ASIC IC packages to support speeds up to 1. 6 Tbps. Edge couplers and SiN waveguides: Efficient optical interfacing for high-density fiber connections, enabling low-loss, broadband, and polarization-independent coupling.

Optical engines (OE): Integration of photonic ICs, electronic ICs, and external or embedded lasers for high-speed data communication.



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Supplier Considerations

When seeking a Spanish supplier, consider companies that: Offer photonic IC design and fabrication compatible with silicon photonics. Provide co-packaged optics assembly and testing, including optical engines and high-density interposers. Support heterogeneous integration of optical and electronic components for HPC, AI, or data center applications.

Have experience with SiN edge couplers, wafer-level optical interconnects, and optical redistribution layers.

Potential Supplier Types in Spain

While specific names are not listed in the web results, compatible suppliers in Spain may include: Semiconductor packaging companies with photonics expertise. Optoelectronic integration firms specializing in PICs and CPO solutions. Research institutes or spin-offs from universities with silicon photonics programs, which often collaborate with industry for prototyping and small-scale production.

For example, companies like ASMPT and ASE provide CPO-compatible silicon photonics solutions globally, and their European partners or distributors may include Spanish entities capable of integration and assembly.

Recommendation

To identify a specific Spanish supplier, it is advisable to: Contact European photonics clusters or technology incubators in Spain. Explore university spin-offs in photonics and optoelectronics. Reach out to global silicon photonics vendors (e.g., ASMPT, ASE) for local distribution or integration partners in Spain.

This approach ensures access to high-quality, CPO-compatible silicon photonics solutions suitable for high-bandwidth, energy-efficient applications.

Article Content

Co-Packaged Optics Supply Chain — Interactive Map (2026)

Interactive field guide to the co-packaged optics (CPO) supply chain: InP laser, hybrid bond, silicon photonics chiplet, switch ASIC. Layers, chokepoints, vendors.

The Silicon Photonics & Co-Packaged Optics supply chain

Roughly fifteen specialist industries have to coordinate to build a single co-packaged module, and at least six of them have one dominant supplier with no real second source.

CPO (Co-Packaged Optics Solutions) | ASMPT SEMI Solutions

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CPO solutions by ASMPT enable high-speed data and energy-efficient Co-Packaged Optics packages—optimize electronics and photonics integration now.

Top CPO and Silicon Photonics Companies for AI Data Centers

A practical map of companies and technologies tied to co-packaged optics, silicon photonics, and future AI data center interconnect.

Silicon Photonics & CPO Supply Chain Map | Bottleneck Analysis

Co-packaged optics (CPO) is the next architecture transition in AI infrastructure. This interactive supply chain map covers 10 layers and 50+ companies in the silicon photonics ecosystem, scored by

Silicon Photonics – Buyer''s Guide & Supplier List | RP Photonics

This buyer''s guide for silicon photonics provides technical background, comparison of major types, selection criteria, and an overview of suppliers.

Optical Component Startup Tracker

iPhonics (ipronics /) is a silicon photonics startup out of Spain that is focused on lossless optical circuit switching (OCS) for datacenter.

Photonic Integrated Circuits – Buyer''s Guide & Suppliers

This buyer''s guide for photonic integrated circuits provides technical background, comparison of major types, selection criteria, and an overview of suppliers.

Silicon Photonics

The report also discusses the supply chain for silicon photonics products, including profiles of the leading foundries. It summarizes recent advances in new modulator technologies,

Silicon Photonics

Here, we list key technologies to enable pluggable, on-board and co-packaged optics: Silicon photonics enables heterogeneous on-board optics, co-packaged optics and optical I/O packaging, which is

Compatible low loss silicon photonics technology supplier in kuwait ...

All Companies and suppliers for compatible-low-loss-silicon-photonics-technology-supplier-in-kuwait Find wholesalers and contact them directly Leading B2B martketplace Find companies now!

Co-Packaged Optics: Architecture, Status, and the Path to 1.6T Switches

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True Co-Packaged Optics (CPO) The photonic integrated circuit (PIC) and the electronic integrated circuit (EIC) share the same package — potentially the same silicon die area via wafer

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Home | Hamamatsu Photonics

The official website of Hamamatsu Corporation whose mission is to advance science and industry through photonic technologies. Our products include optical sensors and components, cameras, light

PhotonDelta – European Integrated Photonics Ecosystem

As a leading hub for the integrated photonics industry, the PhotonDelta ecosystem designs, develops and manufactures smart solutions.

Beyond Chips: Unveiling the Future of the Global Silicon Photonics ...

For silicon photonics applications, hybrid bonding allows photonic integrated circuits (PICs) and electronic integrated circuits (EICs) to be interconnected at extremely short distances,

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