

Compatible 800G Co-packaged Photonics Supplier in Algeria



Overview

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

Key Takeaways

Global suppliers for 800G co-packaged photonics include POET Technologies, Tower Semiconductor, Siverts Semiconductors, and Himax Technologies, though no Algeria-based suppliers are currently listed. Key Global Suppliers and Capabilities

- POET Technologies: Develops optical interposer platforms for 800G/1.6T CPO integration, with partnerships in Malaysia and pre-production orders. Their interposer technology is critical for multi-chip module integration and is considered a potential standard for CPO modules .
- Tower Semiconductor: Leading open-access silicon photonics foundry, providing wafer fabrication for silicon photonics chips compatible with 800G CPO architectures .
- Siverts Semiconductors: Specializes in CW DFB laser dies, a key light source for co-packaged optics, supporting high-speed 800G modules .
- Himax Technologies: Supplies micro-lens arrays for optical coupling, often integrated with fiber array units (FAU) for CPO modules .
- AXT Inc. and Sumitomo: Provide InP substrates, essential for high-speed photonic devices used in 800G modules .

- POET-Himax-FOCI ecosystem: Offers a complete physical interface layer for CPO modules, including fiber arrays and micro-lenses, ensuring compatibility with 800G integration .

Considerations for Algeria

Currently, there are no publicly listed 800G CPO suppliers based in Algeria. Companies in Algeria seeking 800G CPO components would likely need to partner with global suppliers and manage logistics for import. Key considerations include:

- Supply chain reliability: Global suppliers like POET and Tower Semiconductor have limited production capacity, so early engagement is recommended.
- Technical compatibility: Ensure the supplier supports the required silicon photonics platform, optical interposer, and laser type for 800G integration.
- Testing and qualification: All wafers and modules must pass rigorous photonic wafer-level testing, often provided by companies like FormFactor .

Alternative Approach

- RP Photonics Directory: Lists over 1,700 photonics suppliers worldwide, which can be filtered by region or product type. While Algeria-specific suppliers are not highlighted, this directory can help identify distributors or regional partners who can source 800G CPO components .
- Optical module manufacturers: Companies like Innolight, Eoptolink, and Accelink provide high-speed optical modules and may offer distribution channels to North Africa . In summary, while direct Algerian suppliers for 800G CPO are not currently documented, global suppliers such as POET Technologies, Tower Semiconductor, Sivers Semiconductors, and Himax Technologies provide the necessary components. Collaboration with international distributors or regional partners is the most practical route for sourcing 800G co-packaged photonics in Algeria.

Article Content

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