

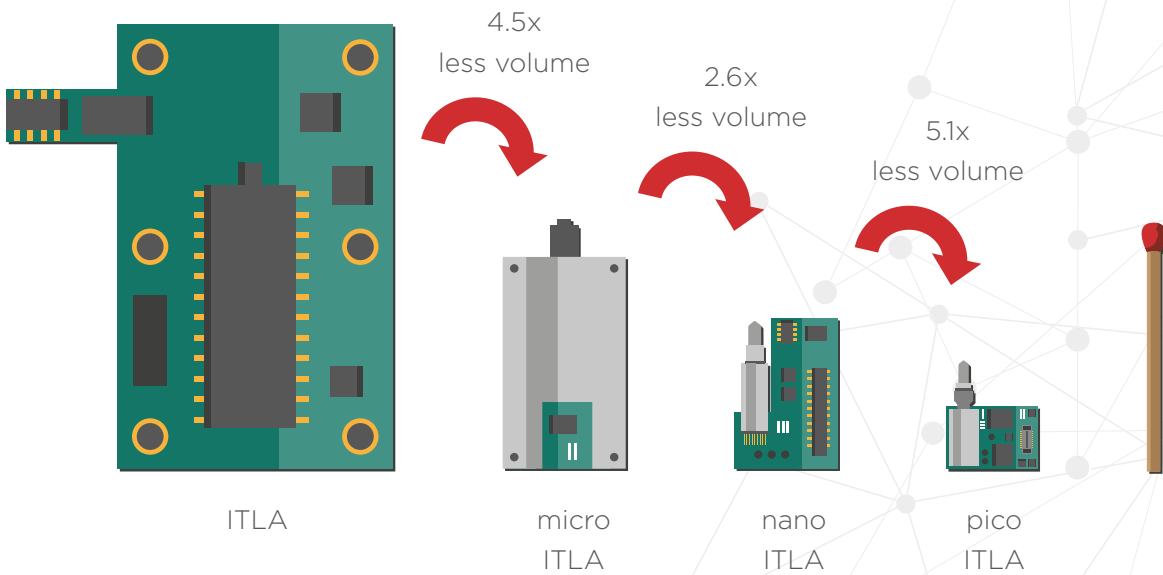
EFFECT Photonics pITLA - World's Smallest Digital ITLA for Coherent Applications

The EFFECT Photonics digital pico Integrated Tunable Laser Assembly (pITLA) is the world's smallest* tunable laser source for coherent transmission. The module provides high-performance, narrow-linewidth continuous wave signals, with its design focused on coherent applications in the optical network edge. It supports both commercial- and industrial temperature (C-temp and I-temp) operating ranges. The pITLA offers an ideal combination of power efficiency, cost-effectiveness, and flexibility to enable a seamless upgrade to a scalable 100G pluggable coherent solution in a QSFP28 form factor, whereas its laser linewidth also supports 400G and 800G ZR applications.

Create the future

* by volume as measured in mm³

- Narrow linewidths suitable for 100G, 400G, and 800G coherent transmission
- Compact enough to fit in QSFP28 and QSFP-DD form factors
- Ultra-low power consumption
- 80% smaller in volume than a nano ITLA
- Commercial- and industrial temperature ranges
- Command interface compliant with OIF-ITLA-MSA-01.3
- Full C-band tunability
- Supports digital diagnostics and monitoring
- Includes on-board calibration data, controlling firmware, and hermetic laser assembly
- Suitable for SiPh applications



Applications

- Point-to-Point and Multi-Point DWDM networks
- Business & enterprise services 100G uplinks
- Cable optical network 100G aggregation
- Mobile mid- and backhaul 100G aggregation

Industry Recognized

We are proud that our pico Integrated Tunable Laser Assembly (pITLA) is recognized among the best by the 2023 Laser Focus World Innovators Awards.

