



# EFFECT Photonics Unveils Development of **pTLA** Enabling Coherent Pluggable Modules at the Edge

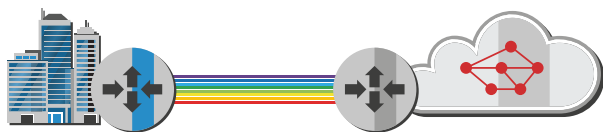
The EFFECT Photonics Pico Tunable Laser Assembly (pTLA) is a tunable laser source providing high-performance, narrow linewidth, and continuous wave signals, specially designed for coherent applications in the optical network edge. It supports both commercial- and industrial-temperature (C-temp and I-temp) operating ranges and offers an ideal combination of power efficiency, cost-effectiveness, and flexibility to enable a seamless upgrade to a more scalable 100 Gbps pluggable coherent solution in a QSFP28 form factor.

**Create the future**

- Narrow linewidth, suitable for 100G performance
- Compact enough to fit in the QSFP28 form factor
- Low power consumption
- Offers design flexibility through modularity
- Commercial and industrial temperature ranges
- Command interface compliant with OIF-ITLA-MSA-01.3
- Full C-band tunability
- Includes on-board calibration data, controlling firmware, and hermetic laser assembly
- Reference design and evaluation board provided to customers

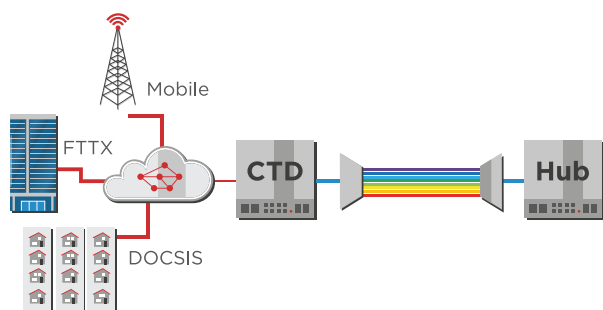
## Applications

The pTLA will be used in 100G coherent pluggables. This will enable the optical edge to scale from 10G to 100G DWDM or from 100G grey to 100G DWDM optics without forklift upgrades.



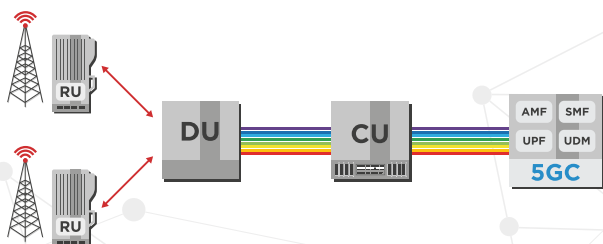
### Business Service:

P2P single-span link with reach of up to 120km, in controlled environment. Upgrades enterprise bandwidth between two offices or between the office and cloud provider.



### Fixed Access:

P2P single-span link with reach of up to 120km, in uncontrolled environment. Upgrades the uplinks of termination devices such as OLTs and CCAPs.



### Mobile Midhaul:

P2P single-span link with reach of up to 120km, in uncontrolled environment. Upgrades midhaul to DWDM coherent 100G technology.

### Mobile Backhaul:

P2P multi-span link with reach of up to 500km, in controlled environment. Upgrades backhaul to DWDM coherent 100G technology.