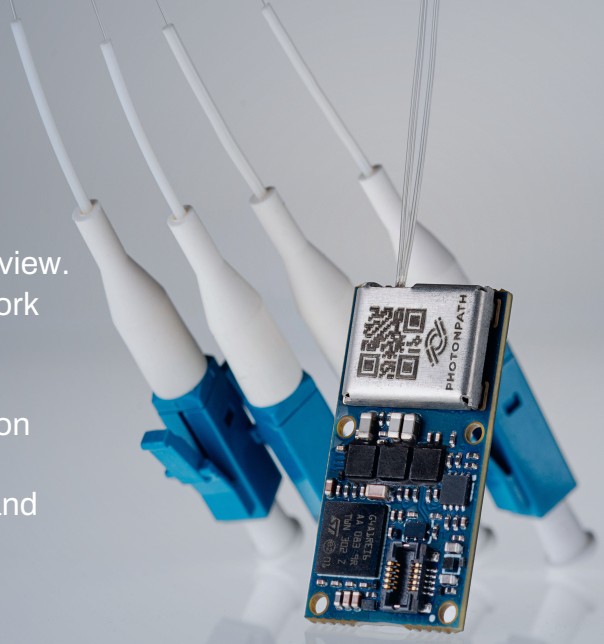
4-port nanoOCM

Multi-port Flex-grid Optical Channel Monitor
Same single-port footprint

PhotonPath's 4-port nanoOCM brings the proven performance of single-port nanoOCM into a multi-channel architecture, enabling monitoring up to four optical inputs within the same ultra-compact footprint.

Powered by a narrow-band reconfigurable filter, an integrated silicon photonics switch and advanced proprietary algorithms, the 4-port nanoOCM scans the C-band delivering a high-resolution spectral view. It enables faster fault detection, optimizes optical network and improves troubleshooting.

Designed for flex-grid channel plans and next-generation DWDM systems, the 4-port nanoOCM is built to seamlessly scale with evolving network architectures and increasing monitoring density requirements.



PhotonPath's 4-port nanoOCM – enabling scalable, embedded multi-point optical monitoring.

Key Benefits

- Monitoring up to 4 optical inputs
- Same compact footprint of single-port nanoOCM
- Flex-grid configuration
- Optimized for closed-loop control of DWDM power-equalized channels
- Ideal for embedded DWDM monitoring in ROADM and OLS
- Integrable in QSFP form factor

Specifications

Operational Bandwidth	1529 -1567 nm
Dimensions bare OCM	23.5 x 12.8 x 4.095 mm
Frequency Accuracy	± 4 GHz
Resolution Bandwidth	15 GHz
Sensitivity	- 35 dBm
Power Consumption	2 W

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Now Sampling!

PhotonPath's 4-port nanoOCM extends the proven single-port nanoOCM architecture to four optical inputs within the same footprint.

Designed for next-generation reconfigurable DWDM networks, it enables multi-point monitoring while reducing footprint, power consumption and system complexity.

High-resolution filtering and proprietary algorithms ensure fast scanning and reliable adjacent-channel accuracy. Compact, scalable and ready for embedded integration.

The module is available with Evaluation Kit controllable by a Graphical User Interface (GUI) and Python-based Application Programming Interface (API).

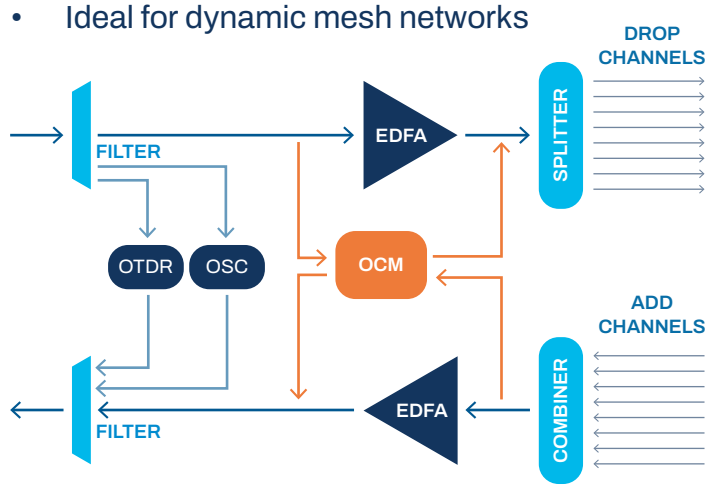
Features and Applications

Thanks to its ultra-small footprint, PhotonPath's nanoOCM can be integrated directly into optical modules or submodules. This enables:

Parallel Channel Tracking

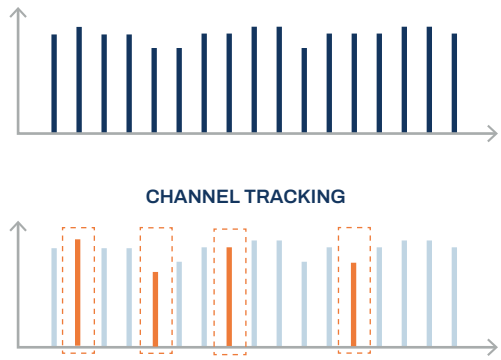
Monitor up to four independent optical signals.

- Lock and track selected channels
- Flexible channel selection
- Ideal for dynamic mesh networks



High-Density Embedded Integration

- OLS platforms
- Optical Line Cards
- Pluggable modules
- DCI networks



Contact Information

Contact us today to learn more about PhotonPath's nanoOCM.

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