

nanoOCM

The Smallest Flex-Grid Optical Channel Monitor (OCM) for DWDM Networks

PhotonPath's nanoOCM delivers cutting-edge performance in the smallest form factor on the market.

Powered by a narrow-band, fast-tuning reconfigurable filter, the nanoOCM scans the C-band to provide a high-resolution spectrum view of your signals. This will help to detect issues, troubleshoot problems, and optimize your optical network performance.

With its single-port design (4 ports version available soon), support for flex-grid channel plans, PhotonPath's nanoOCM is built to adapt seamlessly as your network evolves



PhotonPath's nanoOCM is **now shipping in volume** and ready for large-scale deployment

Key Benefits

- Compact design, low cost and low power consumption
- Flex-grid configuration
- Fast scan of the entire C-band
- Suitable for closed-loop control of DWDM power-equalized channels
- Ideal for embedded DWDM monitoring for ROADMs, OLS and third-party wavelength applications

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
Scan Time	500 ms
Power Consumption	2 W

Now Shipping!

PhotonPath's nanoOCM is built for next generation fully-reconfigurable WDM networks, supporting high bit rate transmission systems and mixed-channel routing in complex optical meshes. Proprietary algorithms and a high-resolution filter ensure fast scanning and superior adjacent-channel accuracy - performance on par with an optical spectrum analyzer.

Compact and low-power, the nanoOCM fits seamlessly into high-density systems. It offers fully flexible monitoring, from full C-band scans to focused single-channel tracking.

PhotonPath's nanoOCM is provided with an Evaluation Kit controllable by a Graphical User Interface (GUI) and a Python-based Application Programming Interface (API).



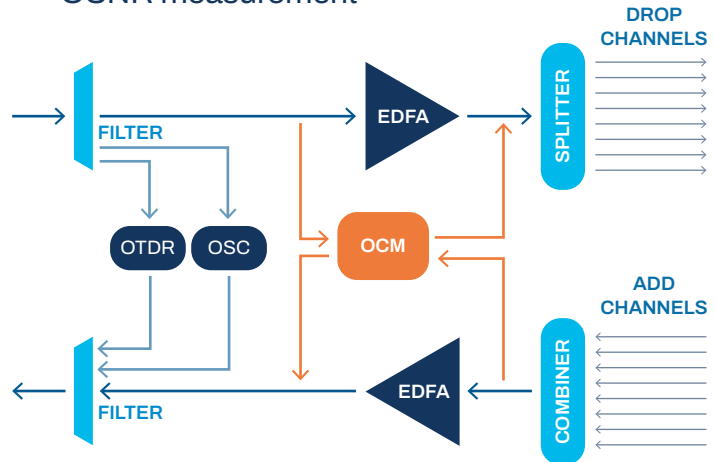
Features and Applications

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

Monitoring of ROADM nodes

Ultra-compact form factor enabling full ROADM node monitoring.

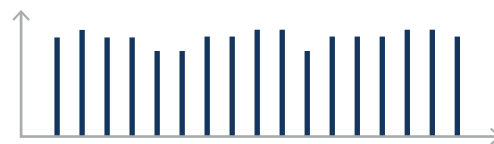
- Real-time network supervision
- OSNR measurement



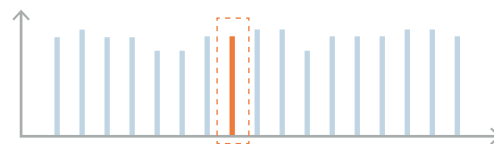
Continuous Single Channel Monitoring

Ideal for performance monitoring and faster troubleshooting.

- Lock and track a single channel of arbitrary bandwidth
- Channel selection during operation



CHANNEL TRACKING



Contact Information

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

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