

FLEXGRID HIGH RESOLUTION OPTICAL CHANNEL MONITOR (OCM)

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Featuring unprecedented resolution, power and frequency accuracy, the Flexgrid® High Resolution Optical Channel Monitor (OCM) by Coherent offers optical spectrum analyser (OSA) performance in an ultra-compact, cost effective optical networking component.



FEATURES

- Fully integrated compact, cost effective, low-profile OPM/OCM module
- Excellent power accuracy independent of adjacent signal power
- Excellent wavelength accuracy without the need of an external reference
- Simple and flexible interface including configurable sub-GHz spectral slice widths
- Rapid scanning of the entire C-band in real-time
- Powerful advanced processing of spectral features including valid channel detection, center wavelength and OSNR monitoring
- Patented and proprietary coherent detection technology
- Stable and reliable operation

APPLICATIONS

- Densely spaced super-channel carrier discrimination
- Conventional or mixed modulation formats
- Long haul and metropolitan DWDM network supervision
- Precise network control during dynamic network operations such as provisioning and maintenance cycles
- Effective network fault localization
- Reliable long-term WDM network operation

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Through proprietary and patented coherent detection and sub-GHz wavelength accuracy, Coherent's OCM features highly accurate power monitoring of fine spectral slices independent of adjacent channel power and without the need for de-convolution, making it ideal for next generation networks comprised of individual carriers densely packed into multi-carrier super-channels. Effectively future proof, it not only complements but enhances new transceiver technologies which allow transmission rates and modulation formats to be configured for optimum spectral efficiency over any transmission link in an adaptive manner.

Coupled with rapid scanning and powerful advanced processing of spectral characteristics, such as valid channel detection, center wavelength and OSNR monitoring, it enables precise network tuning during dynamic network actions and reliable long-term operation.

The unique challenges of extending SDN to the optical transport layer are addressed by the network instrument level telemetry enabled by Coherent's High Resolution OCM.

The High Resolution OCM represents the latest addition to Coherent's industry leading ROADM and wavelength management portfolio, offering unparalleled value to system and network providers through complementary innovations.

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