

RXT-4500 - 4510 Series

OSA Modules

The RXT-4500/4510 OSA modules are Optical Spectrum/Channel Analyzers for CWDM and DWDM networks. Using superior micro-optic design and MEMS tuning technology, the modules measure key optical parameters such as wavelength, channel power, and OSNR.



MODULE HIGHLIGHTS

- Precise measurement of WDM wavelengths
- Wide wavelength range
- High wavelength accuracy and resolution
- Built-in wavelength reference
- High power sensitivity
- Excellent power accuracy
- Rugged, reliable design - No moving parts
- Superior shock resistance
- Periodic calibration not required
- Ultra-low power consumption
- Low temperature sensitivity
- Intuitive operation with dedicated test functions
- Touch screen for simple zooming and navigation
- Battery operating time > 8 hours

KEY FEATURES

- Wavelength range from 1260 to 1650 nm
- DWDM channel spacing down to 25 GHz, module dependent
- Resolution 0.1 nm C-band
- In-band OSNR measurement
- Fast continuous scanning at ≤ 5 sec
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- Simultaneous measurements of up to 200 channels, module dependent
- Channel power measurement
- Channel threshold detection
- Span power measurement
- Continuous sweep with min/max hold
- Channel frequency and wavelength delta vs. ITU grid
- High wavelength accuracy: ± 50 pm
- High dynamic range: ≥ 65 dB
- OSNR measurement: up to 40 dB
- Low Polarization Dependent Loss (PDL): < 0.3 dB
- Universal optical interface with industry standard adaptors
- Supports 10/40/100 Gbps transmission modulation types
- Optical Channel Checker Test Mode
- Drift Analysis Test Mode
- DWDM channel monitoring per ITU G.694.1 grid for 25/33/37.5/100/200 GHz, module dependent
- CWDM channel monitoring per ITU G.694.2 grid
- OSNR measurement compliant with IEC 61280-2-9