

STT® xWDM

OSA, Wavelength Converter, Wavelength Drop

Data Sheet



The STT xWDM is part of a family of test modules for the STT Platform

The xWDM Module is a member of the Scalable Test Toolkit (STT), the next-generation optical network test solution from Sunrise Telecom. Along with modules covering SONET/SDH, fiber optic, and Ethernet testing, the xWDM Module provides a powerful and versatile solution for the installation and maintenance of DWDM/CWDM network equipment. The xWDM Module, like other STT modules, can be configured as part of an instrument with the STT Control Module or can be operated independently with a standard PC running Windows®.

The xWDM Module combines a Fabry-Perot filter-based Optical Spectrum Analyzer (OSA), a Tunable Channel Drop, and a Tunable Wavelength Converter. It provides the testing solutions needed to handle the toughest DWDM and CWDM installation and maintenance problems with ease. The OSA reveals physical layer problems with wavelength, power, and OSNR. The Tunable Channel Drop allows selection of a specific channel in the signal for Layer 2 and Layer 3 testing. The Tunable Wavelength Converter takes the input signal and transmits it on the ITU-WDM grid. Never before has such comprehensive payload analysis been possible from within the DWDM network.

FEATURES

- C- and L-band Tunable Laser Source on 50 GHz ITU-T G.692 channel grid
- Tunable Laser Source includes integrated modulator for wavelength conversion
- Dual port Optical Spectrum Analyzer covering O, E, S, C, and L-bands
- C- and L-band Tunable Channel Drop

BENEFITS

- Quickly debug DWDM network by easily inserting new channel for WDM network element verification
- Low insertion loss Channel Drop allows low signal BERT & protocol analysis of a single channel from a DWDM network
- Measure power level, wavelength, and OSNR for each optical signal

HIGHLIGHTS

- Combine Channel Add, Drop, and wavelength analysis in a compact module
- Easy-to-use interface for quick setup
- Combine with the STT NAM, ONE, or Ethernet modules for comprehensive high speed data network analysis

APPLICATIONS

- CWDM and DWDM channel and network element analysis
- Optical Add/Drop node network element analysis
- Installation and verification of reconfigurable optical Add/Drop modules
- Extend signal distance with O-band wavelength conversion to C-band wavelength