

# ID OSA

## Optical Spectrum Analyzer

### Features

- ✓ 312.5MHz/2.5pm Scan resolution
- ✓ More than 60dB dynamic range
- ✓ C Band Operation
- ✓ Scan rate higher than 1 Hertz
- ✓ Ultra compact 1HE half size 19" rack stacking
- ✓ Ruggedized, no calibration required
- ✓ USB and Ethernet Interface
- ✓ SCPI Style remote command interface
- ✓ Intuitive GUI provided
- ✓ External Trigger interfaces

### Applications

- ✓ High-resolution spectral analysis
- ✓ DWDM transport testing
- ✓ OSNR characterization
- ✓ Modulated Signal characterization
- ✓ Transceiver testing
- ✓ Network monitoring



*ID OSA* is a versatile Optical Spectrum Analyzer for R&D and production test applications with picometer class spectral resolution across the C Band. It makes it a cost effective solution for spectral monitoring.

Two input ports with different sensitivity boost the available power range beyond 60dB allowing accurate analysis of both low power signals as well as high power DWDM bands.

The unit is extremely compact and rugged as it contains no moving parts and does not require recalibration.

The optical input connector plate can be removed by the user allowing to clean the input port connectors effectively.

It is controlled via USB or Ethernet interface by a provided Graphical User Interface (GUI) for Windows PCs or by a SCPI command set.

Parameter	Specification
Frequency Scan Range	191.25 – 196.125 THz 1528.5 – 1567.5 nm
Max. Spectral Sampling Resolution	312.5 MHz 2.5 pm
Resolution Bandwidth	1.7 GHz 13.6 pm
Absolute Frequency Accuracy	+/- 1 GHz 8 pm
Measurement Update Rate full Range, full resolution	> 1 Update / s
Optical input Power range; High Power Port Standard Power Port	-25 – +20 dBm -45 – 0 dBm
Relative Power Accuracy	0.4 dB
Absolute Power Accuracy	+/- 0.7 dB
Spurious Dynamic Range	> 45 dB
Optical Return Loss	> 35dB
Optical Input Connector	FC/APC
Tigger In/Output	3.3V TTL (SMA female)
Data Interfaces	USB, Ethernet
Operating Temperature, non-condensing Storage Temperature	0 – 40 °C -20 – 60 °C
Size of device (H x W x D) 19 inch Half width 1HE stack size	44 x 205 x 270 mm 1.7 x 8 x 10.6 inch
Weight	< 3 kg
Integrated Power Supply	100-240 VAC, 80VA, 50/60Hz

## Ordering Information

ID-OSA-MPD-00	OSA Main unit
ID-OSA-ACC-RM-01	19 inch Rackmount kit, for 1 unit per 1 HE
ID-OSA-ACC-RM-02	19 inch Rackmount kit, for 2 units per 1 HE, order 1 kit per 2 Main units

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