

FTB-5240S-HPW-NS1711

OPTICAL SPECTRUM ANALYZER



Feature(s) of this product is/are protected by one or more of: US patents 8,373,852; US patent 6,636,306 and equivalent patents pending and granted in other countries; US patent 8,358,930 and equivalent patents pending and granted in other countries; US patent 8,787,753; US patent 8,364,034 and equivalent patents pending and granted in other countries; US patent 9,438,336 and equivalent patents pending and/or granted in other countries; patent appl. US 2014/0086574 A1; and US design patent D737,429.

This future-proof OSA goes beyond the limitations of a simple channel checker, offering stripped-down software without the overhead of a full OSA—providing the power and wavelength required for any type of network and transmission.

KEY FEATURES

Versatile and flexible optical spectrum analyzer (OSA) for CWDM, DWDM and hybrid network testing

Ideal for WDM-PON and parallel optics validation

Minimal acquisition cost, ideal for today's testing requirements

Future proof: upgradable to a full OSA via software key upgrade

SPECIFICATIONS ^a

SPECTRAL MEASUREMENT

Wavelength range (nm)	1250 to 1650
Wavelength uncertainty (nm) ^b	±0.05 ±0.01 ^{c, d}
Reference	Internal ^e
Resolution bandwidth (FWHM) (nm) ^f	0.065 ^{b, d}
Wavelength linearity (nm)	±0.01 ^{b, d}
Wavelength repeatability 2σ (nm)	±0.003 ^g

POWER MEASUREMENT

Dynamic range (dBm) (per channel) ^b	-70 ^h to +23
Maximum total safe power (dBm)	+29
Absolute power uncertainty (dB) ⁱ	±0.5
Power repeatability 2σ (dB) ^{d, g}	±0.05

GENERAL SPECIFICATIONS

Temperature	operating	0 °C to 40 °C (32 °F to 104 °F)
	storage	-20 °C to 50 °C (-4 °F to 120 °F)
Connectors		EI (EXFO UPC Universal Interface)
		EA (EXFO APC Universal Interface)
Size (H x W x D)	FTB-5240S module	96 mm x 51 mm x 260 mm (3 ¾ in x 2 in x 10 ¼ in)
	FTB-5240BP module	96 mm x 76 mm x 260 mm (3 ¾ in x 3 in x 10 ¼ in)
Weight	FTB-5240S module	1.5 kg (3.3 lb)
	FTB-5240BP module	1.7 kg (3.8 lb)

LASER SAFETY

21 CFR 1040.10 AND IEC 60825-1
CLASS 1 LASER PRODUCT

ORDERING INFORMATION

FTB-5240S-NS1711-XX

Model

FTB-5240S-NS1711 = Optical spectrum analyzer

Connector adapter

EI-EUI-28 = UPC/DIN 47256
EI-EUI-76 = UPC/HMS-10/AG
EI-EUI-89 = UPC/FC narrow key
EI-EUI-90 = UPC/ST
EI-EUI-91 = UPC/SC
EI-EUI-95 = UPC/E-2000
EA-EUI-28 = APC/DIN 47256
EA-EUI-89 = APC/FC narrow key
EA-EUI-91 = APC/SC
EA-EUI-95 = APC/E-2000

Example: FTB-5240S-NS1711-EI-EUI-89

- a. All specifications are for a temperature of 23 °C ± 2 °C with an FC/UPC connector unless otherwise specified, after warm-up.
- b. From 1520 to 1610 nm.
- c. After user calibration in the same test session within 10 nm from each calibration point.
- d. Typical.
- e. Integrated and wavelength-independent self-adjustment.
- f. Full width at half maximum.
- g. Over one minute in continuous acquisition mode.
- h. With averaging.
- i. At 1550 nm, -10 dBm input.

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EXFO is certified ISO 9001 and attests to the quality of these products. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices. In addition, all of EXFO's manufactured products are compliant with the European Union's WEEE directive.

<https://www.go2mhz.com/product/optical-spectrum-analyzer/>

In case of discrepancy, the web version takes precedence over any printed literature.