QUANTIFI PHOTONICS®
A Teradyne Company

ELSFP

1000 SERIES

EXTERNAL LASER SMALL FORM-FACTOR PLUGGABLE

ADVANCED SPECIFICATION SHEET

AVAILABLE IN PXI

quantifiphotonics.com

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TARGET APPLICATIONS

- PIC DVT testing using ELSFP as a light source
- PIC high-volume manufacturing
- ELSFP module testing

ELSFP 1000 SERIES TECHNICAL SPECIFICATIONS

General Specifications	PXI
Bus connection	PXIe
Slot count	2
Dimensions (HxWxD)	130 x 40 x 215 mm (5.1 x 1.6 x 8.5 inches)
Weight	~ 1 kg | ~ 2.2 lbs
Operating temperature range	5 °C to 45 °C | 41 °F to 113 °F
Storage temperature range	-40 °C to 70 °C | -40 °F to 158 °F

Power Specifications	PXI
AC input voltage range	Please refer to the latest PXI Express Hardware Specifications published by the PXI Systems Alliance.
AC input current	
AC frequency range	
DC output voltage	
DC output current max	
Dimensions (LxWxH)	

Model Number	1001
ELSFP module type	8PMF-UHP-DR
Fiber type	PM1300
Optical connector type	MPO-12/APC + MPO-12/APC
Number of channels	8
Operating wavelength	1311 nm
Maximum optical output power	25 dBm
Side mode suppression ratio (SMSR)	30 dB
Polarization extinction ratio (PER)	15 dB (Min)
Relative Intensity Noise (RIN)	-147 dB/Hz (Max)

ELSFP 1000 SERIES TECHNICAL SPECIFICATIONS

Model Number	1002
ELSFP module type	8PMF-UHP-DR
Fiber type	PM1300
Optical connector type	MPO-12/APC + MPO-12/APC
Number of channels	8
Operating wavelength	1311 nm
Maximum optical output power	23 dBm
Side mode suppression ratio (SMSR)	30 dB
Polarization extinction ratio (PER)	15 dB (Min)
Relative Intensity Noise (RIN)	-147 dB/Hz (Max)

Model Number	1003
ELSFP module type	8PMF-UHP-DR
Fiber type	PM1300
Optical connector type	MPO-12/APC + MPO-12/APC
Number of channels	8
Operating wavelength	1311 nm
Maximum optical output power	20 dBm
Side mode suppression ratio (SMSR)	30 dB
Polarization extinction ratio (PER)	15 dB (Min)
Relative Intensity Noise (RIN)	-147 dB/Hz (Max)

NOTES:
1. Advanced specs as at January 2026 and subject to change.

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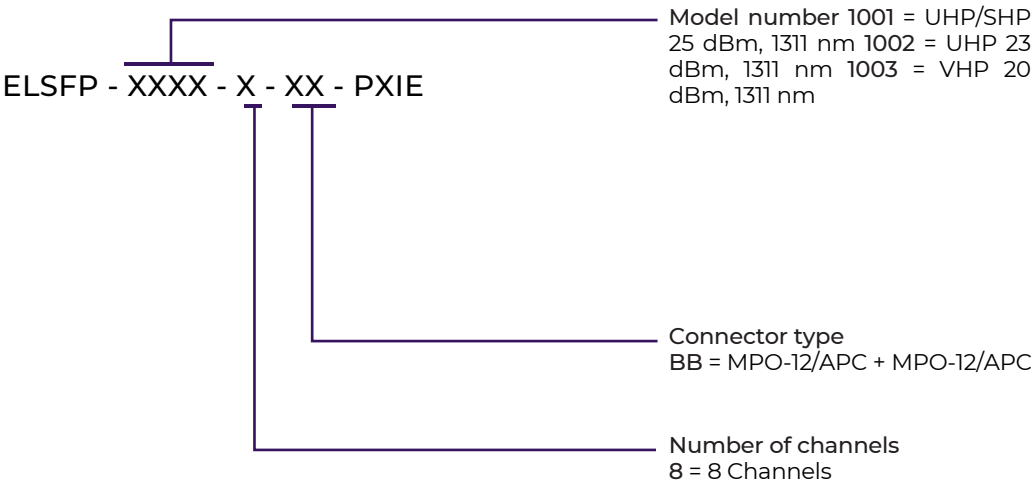
ORDERING INFORMATION



WARRANTY INFORMATION

This product comes with a standard 1 year warranty.

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Our portfolio of optical & electro-optical test modules is rapidly expanding to meet a wide range of customer requirements and applications.

For more details visit **quantifi photonics.com/products**

Tunable Laser Source

Versatile telecom laser sources with full tunability across C or L bands. Narrow 100 kHz linewidth, up to 16.5 dBm of power, optional whisper mode to disable frequency dither.

Fixed Wavelength Laser Source

Highly-customizable DFB or FP laser sources available in a wide range of wavelengths and powers up to 24 dBm. Supports SMF, MMF and PMF.

Swept, Tunable Continuous Wave Laser

Swept, tunable continuous wave (CW) laser source with 0.01 dB power stability and 400 nm/s high-speed scan rate for R&D and production testing.

Superluminescent Diode Broadband Light Source

Super-luminescentLED light source with high output power, large bandwidth and low spectral ripple and various wavelengths.

Erbium-Doped Fibre Amplifi er (EDFA)

High power Erbium-Doped Fiber Amplifi er for signal power amplifi cation in C and L bands with various control modes, including automatic gain control.

Variable Optical Att enuator (VOA)

Fast att enuation speed with low insertion loss and built-in power monitoring. Operates in fi xed att enuation or constant output power modes. Support SMF, MMF and PMF.

Polarization Controller & Scrambler

High-speed automated polarization control with broad wavelength coverage from 1260nm to 1650nm, low insertion loss and back refl ection. Full remote control via intuitive GUI, LabVIEW or SCPI.

Optical Power Meter

Fast terminating or inline monitoring of optical signal power from -60 to +10 dBm across 750 – 1700 nm wavelengths. Model with logarithmic analog output for applications such as silicon photonics fi ber alignment.

Optical Spectrum Analyzer (OSA)

Cost-eff ective, spectral measurement in a compact module with built-in analysis for: SMSR, OSNR & spectral width. Targeted wavelengths for specifi c applications in O band, C band & L band.

Optical-to-Electrical Converter

High bandwidth, broadband O-to-E converter. Choose from 1 or 2 channels, AC or DC coupling and various conversion gain and operating wavelength ranges.

Optical Switch

Proven reliability and fast switching time. Wide variety of switch onfi gurations: 1x4, 1x16, 16x16 and more. Models support SMF, MMF and PMF.

Photocurrent Amplifi er

Versatile photodiode amplifi er to measure photocurrent in photonic integrated circuit (PIC) applications. Digital and analog measurement.

Digital Sampling Oscilloscope (DSO)

Digital equivalent-time sampling oscilloscope (DSO) with high-quality precision timebase and low jitt er mode, available in 1 or 2 channels in a compact benchtop instrument.

Clock Recovery Instrument (CDR)

Clock recovery instrument for the QCA Series. Low jitt er design and precise phase-locking provide a reliable, scalable solution for high-speed communication testing.

Bit Error Rate Tester (BERT)

4 or 8-channel Pulse Patt ern Generator and Error Detector at rates up to 28 Gbps for the design, characterization and production of optical transceivers and opto-electrical components.

Photonic Doppler Velocimeter (PDV)

Purpose-built module for Photonic Doppler Velocimetry (PDV). A circulator, two VOAs and a passive coupler all built into one compact module.

Passive Component Integration

Integrate passive optical components of your choice such as WDM couplers, splitt ers, band-pass fi lters, PM beamsplitt ers and circulators. SMF, MMF and PMF.

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Test.
Measure.
Solve.™

Quantifi Photonics providestest solutionstohelpcustomersunlockscalable andcost-effective high-volume manufacturingofphotonicintegrated circuits (PICs),co-packagedoptics andpluggableoptics.Thecompany's portfolio includes a wide range of photonictestinstruments,anddigital sampling oscilloscopes, available asbenchtoportheindustry-standardPXI format to support cost-eff ective, high-throughputdesignverificationtesting and high-volume manufacturing.

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