

# OP750

## Multichannel Source

### Overview

#### Multichannel Source

The **OP750** multichannel source can be configured for a mix of up to 24 individual or switched LED or laser sources. A single wavelength LED sources feature an internal large core fiber to guarantee an overfill condition into 62.5/125 or 50/125 multimode fiber available for the wavelength 850nm and 1300nm. The single wavelength sources for 1310nm and 1550nm are terminated with standard 9/125 fiber. A dual wavelength option, 1310nm and 1550nm into a single port is available as well (12 channel version only). Instead of individual sources for each channel an internal switch as available as an option with depending on the configuration represents a great cost savings.



Model OP750 Multichannel Source

### Features

#### Multichannel LED Source

- Up to 24 LED sources in one rack
- Factory configurable wavelength mix
- Adjustable power level 0% to 100% either through front panel or USB port
- Controlled launch condition, customer specific CPR available.
- Dual wavelength operation with internal 1x2 precision optical switch.
- Support of most common connector options (FC/PC, ST/PC, SC/PC, others)

#### Multichannel Laser Source

- Up to 24 Laser sources in a single rack or up to 12 dual wavelength (1310/1550) sources.
- Factory configurable wavelength mix including LED and Laser
- Adjustable power level up to 10dB depending on laser either through front panel or USB port.
- Cost effective solution with optional, internal, high repeatable built-in optical switch.
- Support of most common connector options (FC/PC, ST/PC, SC/PC or others)

CC=number of channels	WWW=wavelength	OP750-LD-CC-WWW
<b>LED Sources</b>		
Individual Channels (other counts available)		4 to 24
LED Wavelength (standard, other upon request)		850nm, 1300nm
Nominal Output Power		Minimal -20dBm into 62.5/125 multimode
Stability		+/- 0.02dB (ambient temperature +/- 5° C, 1 hour) +/- 0.05dB (ambient temperature +/- 5° C, 12 hours) +/- 0.2dB (+10° C to +40° C)
Launch Condition		Internal 105/125 μm fiber user specified CPR upon request
Power Adjustment		0% to 100% (256 steps)
Data Interface		USB 1.1 (or later) compatible data rate and interconnect allows control of individual source power
Operating Temperature Range		0° C to 50° C (32° F to 122° F)
Mechanical Dimension		19" Rack Standard (16.8 x 3.8 x 10 inch)
Optical Interface		Fixed FC, SC, ST or other common interface
Power Supply		Universal AC input: 90VAC to 264VAC, 43Hz ... 63Hz

Specifications are subject to change, please confirm specific performance characteristics of the product at the time of ordering.  
All specifications are valid within temperature range of 18° C to 24° C unless otherwise noted.

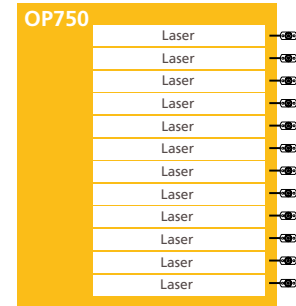
# OP750

## Multichannel Source

### Configurations

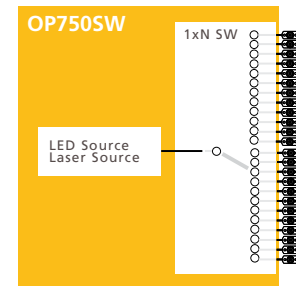
#### Multichannel Source Standard Configuration

For best stability and measurement speed each channel is equipped with a dedicated source (laser or LED) driven by it's own laser or LED driver circuit.

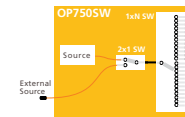


#### Multichannel Source with internal optical switch

For high channels counts or certain type of sources the option of an internal precision optical switch is an economical solution. One of the trade-offs is a reduced measurement speed or throughput since the optical switch takes a defined amount of time to switch between channels.



Additional options such as a internal source bypass switch or other custom solutions are available as well.



CC=number of channels WWW=wavelength		OP750-LS-CC-WWW
<b>Detail Specifications</b>	<b>Laser Sources</b>	
	Individual Channels (other counts available)	4 to 24
	Laser Wavelength (standard, other upon request)	1300nm, 1550nm, 1310nm and 1550nm
	Nominal Output Power	minimal 1mW into 9/125 multimode
	Stability	+/- 0.02dB (ambient temperature +/- 5° C, 1 hour) +/- 0.05dB (ambient temperature +/- 5° C, 12 hours) +/- 0.2dB (+10° C to +40° C)
	Central Wavelength, Spectral Width	+/- 20nm, 5nm FWHM
	Power Adjustment	approximate 10dB in 256 steps
	Data Interface	USB 1.1 (or later) compatible data rate and interconnect allows control of individual source power
	Operating Temperature Range	0° C to 50° C (32° F to 122° F)
	Mechanical Dimension	19" Rack Standard (16.8 x 3.8 x 10 inch)
Optical Interface	Fixed FC, SC, ST or other common interface	
Power Supply	Universal AC input: 90VAC to 264VAC, 43Hz ... 63Hz	