1xN Rack-Mounted Optical Switch

OPTICAL SWITCH FEATURES

- ✓ Low Loss and High Reliability
- ✓ AC/DC Flexible Dual Power Supply
- ✓ Parallel Interface (RS232, RJ45)
- ✓ LCD Display Module for Light Path Status Displays
- ✓ Breakdown Self-checking and Alarm Warning (LCD Display)

OPTICAL SWITCH APPLICATIONS

- > Optical Signal Switching and Routing
- Optical Network Monitoring
- > Testing of Fiber Optic Component
- Military Communications



Specifications of the Rack-Mounted Optical Switch								
Channel Number (N)	1 <n≤64< td=""><td colspan="3">64<n≤128< td=""></n≤128<></td></n≤64<>		64 <n≤128< td=""></n≤128<>					
Insertion Loss (dB)	Typ: 0.5; Max:1.0		Typ: 1.0; Max:1.5					
Operating Wavelength (nm)	1260~1650 (SM)	532~1064/1310 (MM) Custom		Custom				
Testing Wavelength (nm)	1310/1490/1550/1625	532/650/780/850/980/1310 Custom		Custom				
Return Loss (dB)	SM (9/125) ≥ 50; MM (50/125, 62.5/125) ≥ 30							
Crosstalk (dB)	SM (9/125) ≥ 70; MM (50/125, 62.5/125) ≥ 70							
Polarization Dependent Loss (dB)	≤0.05							
Wavelength Dependent Loss (dB)	≤0.25							
Temperature Dependent Loss (dB)	≤0.25							
Repeatability (dB)	≤0.02							
Lifetime (cycles)	107							
Switching Time (ms)	≤10 (adjacent channel)							
Optical Input Power (mW)	≤500							
Working Voltage (V)	AC 85-256V (Typ. 110V, 220V), DC 36-72V (Typ. 48V), or Dual Power Supply							
Operating Temperature (°C)	0 ~ +70							
Storage Temperature (°C)	-40 ~ +85							
Dimension / Channel Number (mm/N)	1U: 483 x 250 x 44.5	2U: 483 x 250 x 89	3U: 483 x 250 x 133.5	4U: 483 x 250 x 178				

Notes:

1. Above data are test results with connectors assembled.

2. The Rack-Mounted Optical Switches are customizable and subject to change without notice.

3. For product customization or special requirement, please contact Lfiber's sales representative.

Lfiber

Optical Components, Fiber Optic Devices, Modules, and more.

Control Methods of the Rack-Mounted Optical Switch

It provides three methods to control the device.

- Method 1: Use the button on the rack panel.
- Method 2: Use the RS232 / USB interface.
- Method 3: Use the RJ45 interface.

Method 1 is the simplest, you can easily control the rack-mounted optical switch using the button on the rack panel.

By method 2, the rack-mounted optical switch is easily controllable through LabVIEW and Python.

If there is a need, we can offer software solutions (based on Microsoft Windows OS) so that you can easily control the optical switches (even though you don't have any knowledge about programming) via the RS232 / USB interface on your computer.

The software is programmed with Visual Basic (VB). We can provide the source code if customers need it.



Ordering Information for the Rack-Mounted Optical Switch								
	Port/Channel Number	Test Wavelength	Fiber Type	Rack Mount	Connector			
Rack-mounted Optical Switch	1~128	850 nm	9/125 µm (SMF)	1U	None			
		1310 nm	50/125 µm (MMF)	2U	LC/PC			
		1550 nm	62.5/125 µm (MMF)	3U	LC/APC			
		1310/1550 nm	105/125 µm (MMF)	4U	SC/PC			
		Custom	200/220 µm (MMF)	Custom	SC/APC			
			400/440 µm (MMF)		FC/PC			
			600/660 µm (MMF)		FC/APC			
			800/880 µm (MMF)		Custom			
			Custom					

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