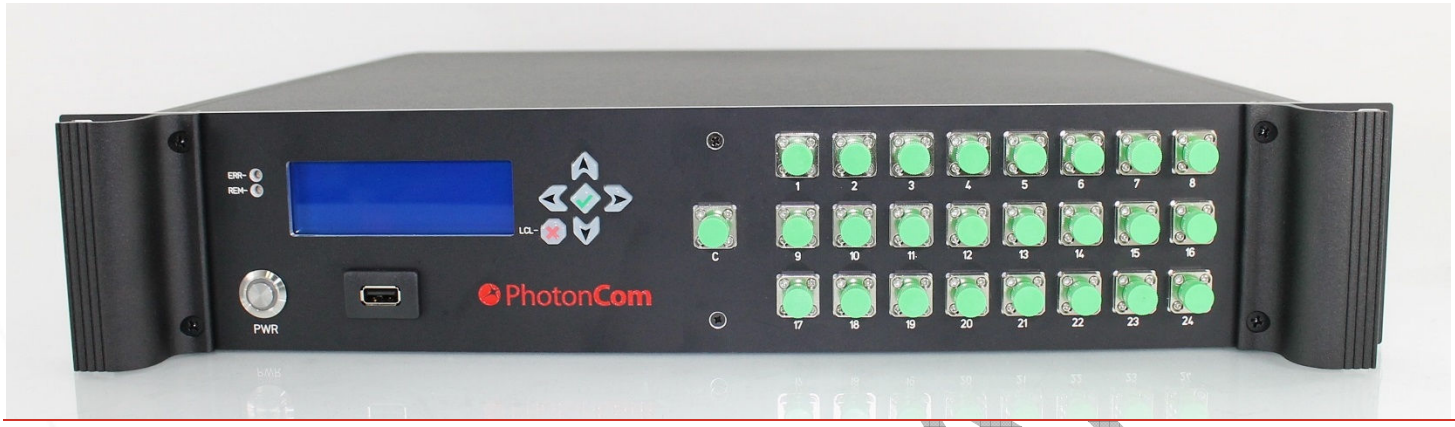
PhotonCom
Photonic Communication Instruments

data sheet

Optical Switch



Key Features

- High reliability
- Ultra-low Polarization Dependent Loss
- Low Insertion Loss
- Multiple configurations available
- RS-232 and Ethernet SCPI Interface – GPIB optional

Overview

The **PhotonCom Optical Switch** provides high accuracy and repeatability in switching light from a common path to one of multiple output paths. Its ultra-low Polarization Dependent Loss and Insertion Loss characteristics makes it best suited for automated test systems. This programmable switch can be controlled using the front panel keys, via RS-232, Ethernet or through simple web interface.

The **OSSM (Optical Switch Single-Mode) Series** is offered in a compact 1U to 4U standard 19" rackmount chassis, with a variety of configurations.

Applications

- Components manufacturing
- Multi-unit testing
- Measurement and Instrumentation
- Research and Development
- Telecommunications environment

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Optical Specifications (including connectors)

Wavelength range	1260 nm to 1640 nm	
Insertion loss*	0.7 dB typical, < 1.5 dB maximum	(Value at 25 °C)
Crosstalk	-55 dB maximum	
Return Loss*	35 dB with straight connector, 50 dB with angled connector	
Switching time (adjacent channels)	300 ms maximum	
Repeatability* (after 100 cycles)	0.006 dB typical, 0.05 dB maximum	(For constant temperature and polarization)
Polarization Dependent Loss*	0.02 dB typical, 0.07 dB maximum	
Durability	Over 10 million cycles	
Maximum input optical power	27 dBm (500 mW)	
Fiber Type	Single-Mode 9/125 µm	

> Product specifications and descriptions provided in this document are subject to change without notice

* typical values with 1 x 24 switch, at 1550nm

Ordering information

OSSM9__ __X__X__ _F

Connector Type:
FC: FC / UPC
FA: FC / APC
SC: SC / UPC
SA: SC / APC

 # Output Channels:
4-96

 # Input Channels:
1-2

 # Switches:
1-4

Example: OSSM9FA1X1X8_M

> Custom configurations are available upon request.

> Rack slot units – Switch configuration relationship examples:

1U: < 24 bulkheads: 1x1x4, 1x1x8, 1x1x16, 2x1x8, 4x1x4

2U: < 50 bulkheads: 1x1x24, 1x1x36, 1x1x16, 1x1x48, 1x2x48

3U: < 74 bulkheads: 1x1x72

4U: < 98 bulkheads: 1x1x96, 1x2x96

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