

1×N MEMS Multimode Optical Switch Module

Description

(MEMS MMOSM)

The 1xN MEMS MM optical switch module is an advanced microelectromechanical system (MEMS) optical device that features high-speed operation, low insertion loss, and high stability. It is capable of receiving a single input light signal and accurately distributing it to N independent output ports. The module is designed compactly and operates rapidly, completing light signal switching in the millisecond range, with extremely low insertion loss, thus enhancing the overall efficiency of the system. Moreover, it supports remote control and can flexibly configure the optical path through external signals, making it suitable for

Key Features

applications such as data centers, optical communication networks, and scientific research experiments.

- Mini Size
- Fast Switching Time

Applications

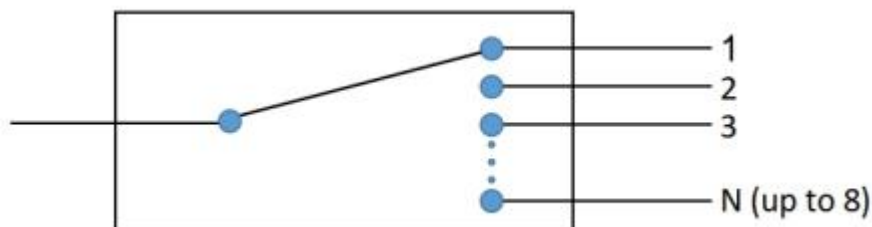
- Low Insertion Loss
- Enhanced Reliability and Exceptional Stability
- Metropolitan Area Network
- Data Center

Follow the Standards

- Fiber Optic Sensing and Monitoring
- Instruments
- Telcordia GR-1221

Optical Path Diagram

- Telcordia GR-1073



PIN	NAME	FUNCTION
1	VDD	Power Supply: +5V
2	GND	Ground
3	PD1	TTL Input : L<0.8V, 2.2V<H<3.3V
4	PD2	TTL Input : L<0.8V, 2.2V<H<3.3V
5	PD3	TTL Input : L<0.8V, 2.2V<H<3.3V
6	PD4	TTL Input : L<0.8V, 2.2V<H<3.3V
7	PD5	TTL Input : L<0.8V, 2.2V<H<3.3V
8	NC	No Connection
9	NC	No Connection
10	GND	Ground
11	RX	Receive Data
12	TX	Transmission Data
13	NC	No Connection
14	RST	Reset system; Low=Operable

Data Bit Switching Logic Table

PD5	PD4	PD3	PD2	PD1	Channel
0	0	0	0	1	1
0	0	0	1	0	2
0	0	0	1	1	3
0	0	1	0	0	4
0	0	1	0	1	5
0	0	1	1	0	6
0	0	1	1	1	7
0	1	0	0	0	8

Note: Default reset on channel 1 after power-up

Ordering Information

MEMS-MMOSM-1*N-XXXX-XX-XXX-XX/XX-XX*XX

