

# 100Channel 1×2 Optical Switch

## Multi-mode 850nm LC/PUC 2U chassis RD-OSS-2X1-100-MM-2U

RD-OSS-2X1-100-MM-2U Rack-mounted optical switch consists of 100 1X2 optical switches combined with optical path control devices, which can control the optical path in short range or remote mode through serial communication and Ethernet communication. It plays an important role in optical communication applications. The optical switch is mainly used in: multi-channel optical monitoring in optical transmission system, LAN multi-light source/detector automatic switching, and optical sensor multi-point dynamic monitoring system optical test system for optical fiber, optical devices, networks and field engineering cable testing; Optical device installation and adjustment.

### Features

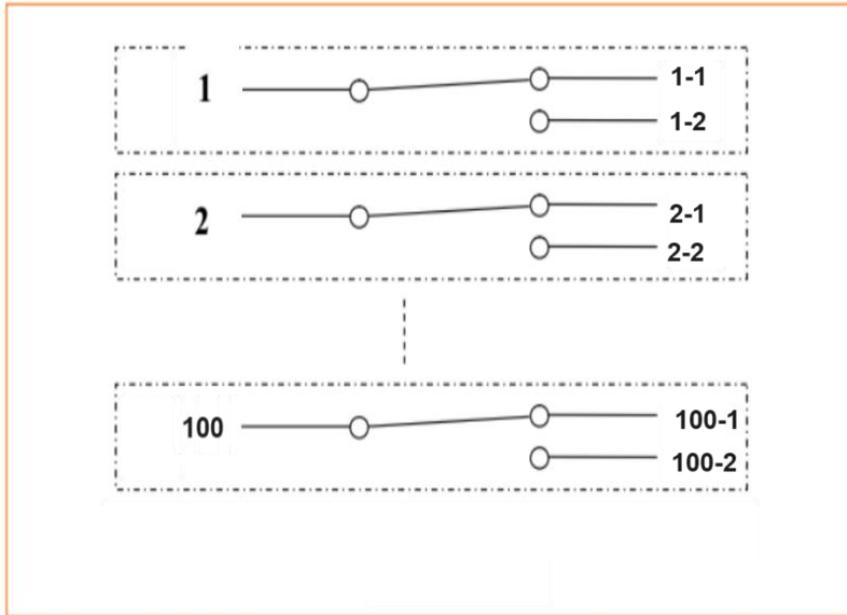
- ◆ Low insertion loss, Fast switching.
- ◆ Ethernet RJ45 Management
- ◆ RS232 Control Management
- ◆ Independently controls each optical switch optical path

### Specifications

Designation	Parameters
Channel No	<b>RD-OSS-2X1-100-MM-2U</b>
Channel No	850nm
Wavelength Range	≤ 1.2 dB
Insertion Loss	≤ ±0.02 dB
Repeatability	≥ 50 dB
Return Loss	≥ 55 dB
Crosstalk	≤20 ms
Wavelength dependent loss	≤ 0.25 dB
Polarization related loss	≤ 0.05 dB
Fiber Type	MM OM3 (50/125um)
Connector	LC/PC
Monitoring Port	RJ45、RS-232
Working Power Supply	AC: 100~240V

Working Temperature	-10 ~ +60℃
Operating Temperature	-40 ℃ ~ +85 ℃
Size	<b>400X 230 X 90mm</b>

### Optical path diagram



(Internal optical diagram, 100 1X2 optical switches, support two-way communication)

### Instructions

#### 1.Panel shows

Front panel



- (1) Power: device on, off button.
- (2) RJ45: Ethernet 10/100M communication interface.
- (3) RS-232: RS-232 communication interface.
- (4) Optical interface: 25 LC quad flanged optical fiber interfaces (bidirectional), a total of 100 LC

interfaces, corresponding to input ports 1-100.

(5) LCD display: device address, current channel and related information display.

(6) ▲ - Move up key; ▼ - Move down key; Enter - OK key; Esc - Cancel the key.

### Real panel



#### Optical interface

50 LC quad adapters, a total of 200 LC interfaces, corresponding to 200 output interfaces (bidirectional support)

1-1, 1-2: represents output 1 and output 2 of Group 1

2-1, 2-2: represents output 1 and output 2 of group 2

3-1, 3-2: represents output 1 and output 2 of Group 3

...

100-1, 100-2: represents output 1 and output 2 of group 100

(Two-way support).

#### Factory setting

- ◆ Serial port Set to 9600 baud, 8 data bits, and 1 stop bit, without parity check.
- ◆ IP address: 192.168.1.100; Communication port: 5000
- ◆ Network port protocol: TCP Server , UDP (fixed port: 18888)

Please Note: Users have special requirements except.