

specification

Product Name: Rack-mounted Optical Switch

Product model: 7206-1*4

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Version: A0

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| Specification Document Version History | | | | | |
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| 24/10/17 | A0 | 4 | First release | Zheng Lingyun | Shi Yong |
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🔗 product description

7206-1*4 Rack-mounted Optical switches are optical path control devices that regulate and convert optical signals. They play a crucial role in optical communication applications. Primary applications include: multi-channel optical monitoring in optical transmission systems, automatic switching of multiple light sources/detectors in LANs, and dynamic multi-point monitoring systems for optical sensing; testing systems for fiber optics, optical components, network infrastructure, and field engineering cables; as well as optical component assembly and calibration.

🔗 Product Features

1. It features low insertion loss and fast switching speed.
2. The LCD display provides intuitive data visualization, facilitating user operation.
3. Automatic scanning can be configured with a maximum switching interval of 99 hours, 59 minutes, and 59 seconds. The "starting channel" and "ending channel" for scanning can be set.
4. The "device address" can be configured to enable users to control multiple optical switch instruments with a single serial port when serial port resources are limited.
5. The baud rate for serial communication can be configured according to actual conditions, with seven selectable options: 1200,2400,4800,9600,19200,57600, and 115200.

🔗 parameter value

| Parameter | Parameter values | |
|-----------------------------|---|--------------------------|
| Model | 7206-1*4-SM | 7206-1*4-MM |
| Operating wavelength | 1260 ~ 1650nm | 532~980nm |
| Test wavelength | 1310 / 1550nm | 850nm |
| Insertion loss | Typ: <1.0 dB, Max: <1.2 dB | |
| Repetitiveness | ≤±0.05 dB | |
| Return loss | SM≥50dB MM≥30 dB | |
| Cross fire | SM≥55dB MM≥35 dB | |
| Wavelength-dependent loss | ≤0.25 | |
| Polarization-dependent loss | ≤0.05 | |
| Switching period | ≤ 10ms (adjacent sequential switching) | |
| Type of optical fiber | SM (9/125um) | MM (50/125um、62.5/125um) |
| Connector type | FC/PC FC/APC | |
| Monitoring port | RJ45、RS-232 | |
| Working power supply | AC: 85 to 264 V (50/60Hz) or DC: 36 to 72 V | |
| Working temperature | -10 ~ + 60°C | |
| Storage temperature | -40 ~ + 80C | |
| Case type | 19 Inch standard 1U rack (483×330×44mm) | |

☞ **Structure diagram description:**

1. Front Panel Description

front panel



- (1) LCD display: Shows device address, current channel, and related information.
- (2) ▲ — Up arrow key; ▼ — Down arrow key; Enter — Confirm key; Esc — Cancel key.
- (3) Power indicator lights PWR1 and PWR2: indicate the working power supply status.
- (4) Light interface specifications: The I/O ports on the device panel are common ports, with channels 1 through 4 assigned to respective channel numbers.

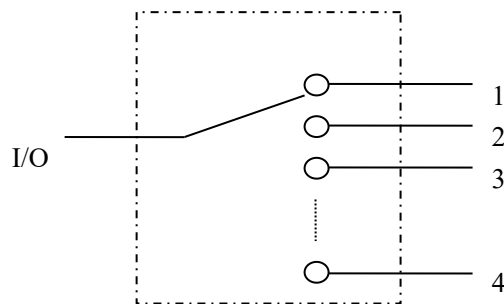
2. Back Panel Description

back panel



- (1) AC or DC power interface: The device's power input interface.
- (2) RJ45 Ethernet Interface and RS-232 Serial Port: Communication Interfaces for Device Monitoring Data Transmission.

☞ **Optical path diagram:**



7206-1*4 Schematic diagram of the internal optical path of the light switch

☎ Order details: GP-7206-1*4-A-B-C-D-E-F-G-H

Example: GP-7206-1*4-1-L-232-X-FS-220-01-00

| A | B | C | D | E | F | G | H |
|--|----------------|--|--|--|---|--|---|
| Light switch type | Display mode | Control method | Type of optical fiber | Operating wavelength | Source | Device size and interfaces | Connector |
| 1: Motor 2: Relay 3: MEMS 4: Magnet 12: Motor/Relay X: Others | L:LCD K:KEY | 232: RS232 ETH: Ethernet ETH/232: Ethernet/RS232 X: Others | SM: SM,9/125 M5: MM,50/125 M6: MM,62.5/12 5 X: Others | 85: 850±40nm O: O band(1260~1360nm) C: C band(1530~1565nm) L: L band(1565~1625nm) U: Uband(1625~1675 nm) FS:1260~1650nm FS2: 1400~1700nm | 220: AC 220V 48: DC -48V 220/48: AC 220V& DC-48V | 01: 483×33 0×44m m 02: 483×33 0×88m m 03: 483×33 0×132m m 04: 483×33 0×176m m | 00: None LU: LC/UPC LP: LC/PC LA: LC/APC FU: FC/UPC FP: FC/PC FA: FC/APC SU: SC/UPC SP: SC/PC SA: SC/APC STP: ST/PC STA: ST/APC X: Others |