

specification

Product Name: Rack-mounted Optical Switch

Product model: 7206-16-1*2

File number: SPEC0127AC1

Version: A0

Release date: 2024/10/24

Specification Document Version History					
date	edition	paginal number	Version Description	Author	Instructor
24/10/24	A0	4	First release	Zheng Lingyun	Shi Yong

② product description

The 7206-16-1*2 rack-mounted optical switch is an optical path control device that manages and switches optical pathways, playing a crucial role in optical communication applications. Primarily used in optical transmission systems for multi-channel optical monitoring, automatic switching of LAN multi-source detectors, and optical sensing multi-point dynamic monitoring systems, it enables full-optical-level routing selection, wavelength selection, and self-healing protection functions within optical testing systems.

② Product Features

1. Features include low insertion loss and fast switching speed
2. Equipped with an LCD display for intuitive data presentation, facilitating user operation.
3. 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.
4. The baud rate for serial communication can be configured according to actual needs, with seven selectable options: 2400,4800,9600,14400,19200,57600, and 115200.

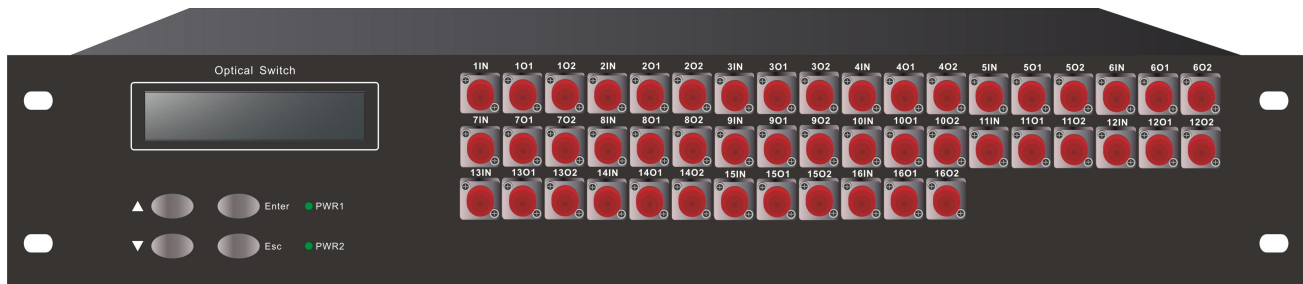
② parameter value

class	parameter values	
model	2U Rack-mounted Optical Switch (7206-16-1*2)	
operating wavelength	1260~1650nm	850/1300nm
test wavelength	1310/1550nm	850nm
insertion loss	Typ: <1.0dB	Max: <1.2 dB Typ: <1.0dB
repetitiveness	$\leq \pm 0.05$ dB	
return loss	SM \geq 50dB MM \geq 30 dB	
cross fire	SM \geq 55dB MM \geq 35 dB	
wavelength-dependent loss	≤ 0.25	
polarization-dependent loss	≤ 0.05	
switching period	≤ 10 ms (sequential adjacent handover)	
Type of optical fiber	SM(9/125um)	MM(50/125um.62.5/125um)
Connector type	FC/APC, FC/UPC, etc.	
Monitoring port	RJ45、RS-232	
working power supply	AC: 85~264V (50/60Hz) or DC: 36~72V	
working temperature	-10~+ 60 C	

Storage temperature	--40~+ 80 °C
outline dimension	Standard 19-inch 2U rack (483×330×88mm)

Product illustration:

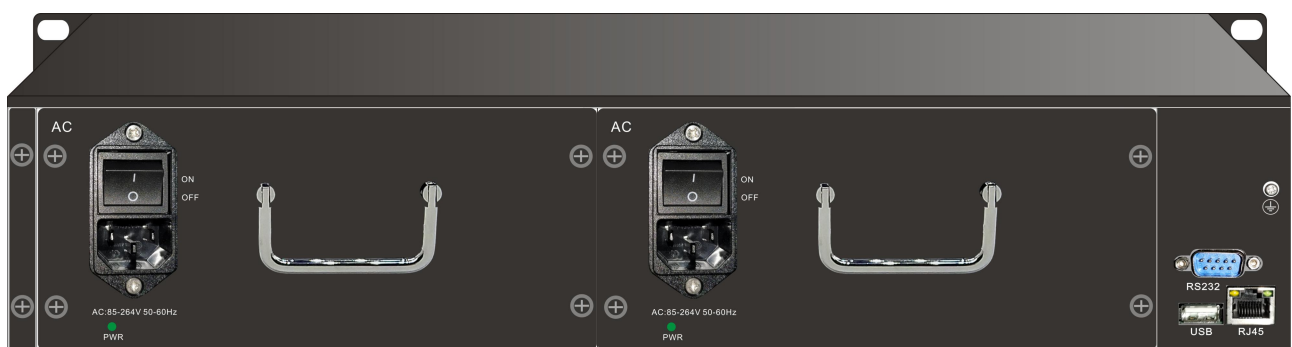
1. Front panel description



7206-16-1*2 FC/APC Front Panel

- (1) LCD display screen: Display of 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) Optical Interface Description: The 1IN, 2IN, 3IN,..., 16IN ports on the device panel are input ports, while 1O1, 1O2, 2O1,..., 16O2 are output ports respectively.

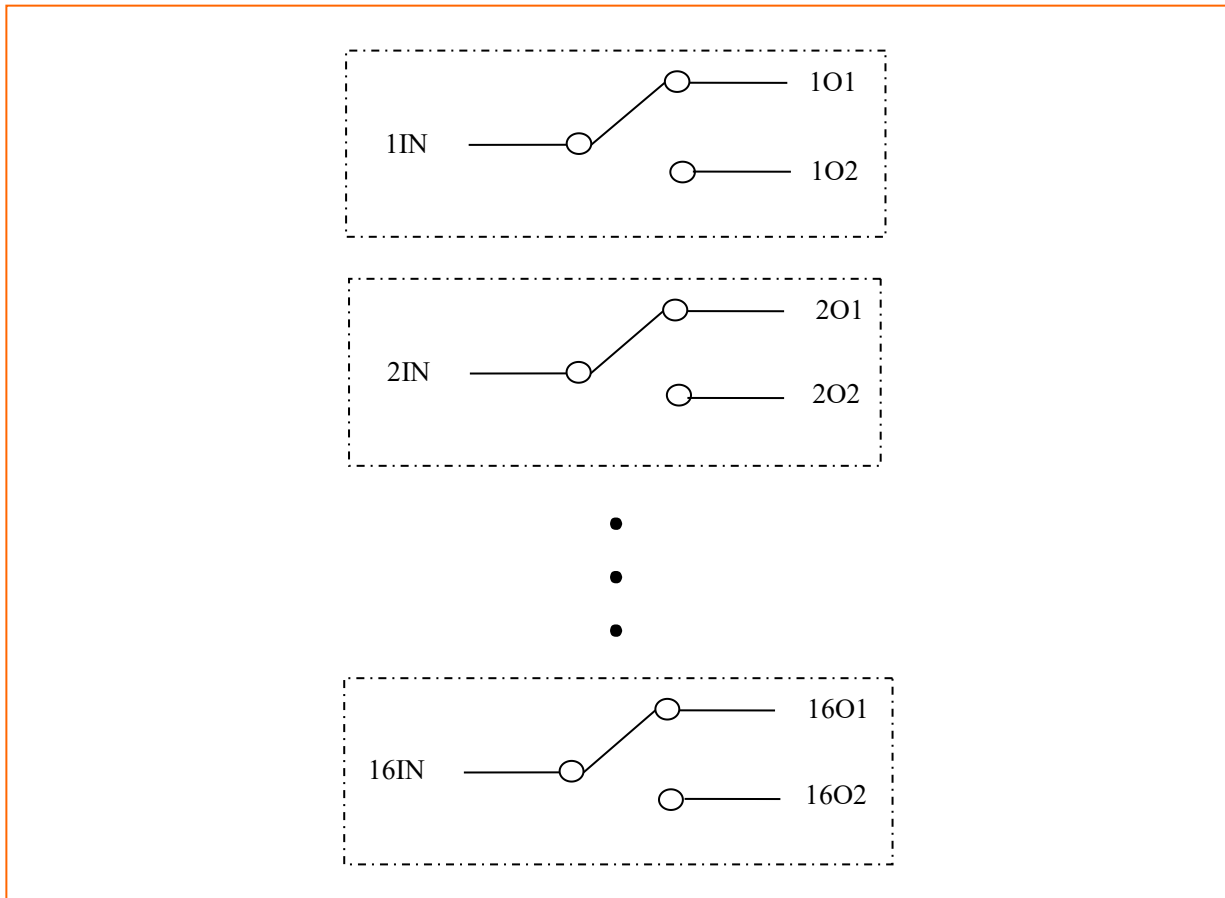
2. Rear panel description



back panel

- (1) DC/AC power interfaces: Input ports for alternating current (AC) and direct current (DC) power supply during device operation.
- (2) RJ45 Ethernet interface and RS-232 serial port: Communication interfaces for device monitoring data transmission.

Optical path diagram:



Schematic diagram of the internal optical path of rack-mounted optical switch 7206-16-1*2

Order details: GP-7206-16-1*2-A-B-C-D-E-F-G-H

Example: GP-7206-16-1*2-2-L-ETH/232-SM-FS-220/48-02-FA

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	L:LCD	232:	SM:	85: 850±40nm	220: AC	01:	00: None
2: Relay	K:KEY	RS232	SM,9/125	O:	220V	483 ×	LU: LC/UPC
3: MEMS		ETH:	M5:	O	48: DC	330 ×	LP: LC/PC
4: Magnet		Ethernet	MM,50/125	band(1260~1360nm)	-48V	44mm	LA: LC/APC
12: Motor/ Relay		ETH/232:	M6:	C:	220/48:	02:	FU: FC/UPC
X: Others		Ethernet/RS232	MM,62.5/12	C	AC	483 ×	FP: FC/PC
		X: Others	5	band(1530~1565nm)	220V&	330 ×	FA: FC/APC
			X: Others	L:	DC-48V	88mm	SU: SC/UPC
				L		03:	SP: SC/PC
				band(1565~1625nm)		483 ×	SA: SC/APC
				U:		330 ×	STP: ST/PC
				U		132mm	STA: ST/APC
				band(1625~1675nm)		04:	X: Others
				FS:1260~1650nm		483 ×	
				FS2: 1400~1700nm		330 ×	
						176mm	