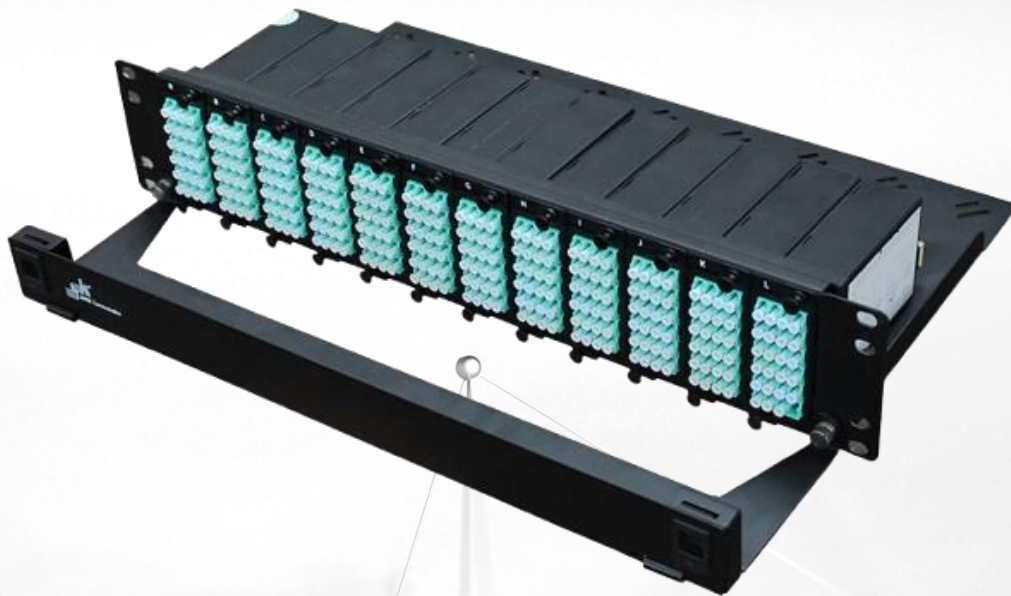


## SP2 Ultra High Density Patch Panel

Ultra-high density MPO/MTP fiber optic cabling system



- Ultra-high density fiber optic cabling
- Supports up to 1U-120F and 2U-288F
- 19-inch standard structure, can be installed in a cabinet/rack

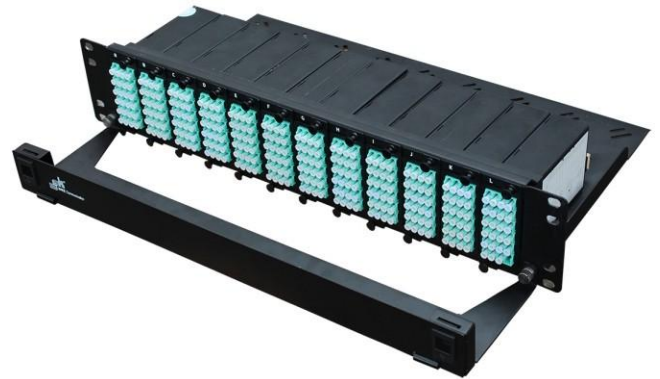
### Description

Spring Optical has been continuously innovating and developing in this field, and has launched the ultra high density MTP/MPO fiber optic wiring solution for data centers. The MTP/MPO connection standard is a miniaturized high-density fiber optic connector standard. A single connector is equipped with multicore ribbon optical fiber, which has high density and stable and reliable connection. The MTP/MPO ultra-high-density wiring system completes the termination and testing of the MTP/MPO high density fiber optic connector and the ribbon optical cable in the factory, and plugs and plays with the equipment on site, supporting the rapid deployment of user data centers. It is an ideal solution for the growing demand for high-capacity wiring in data centers, with the characteristics of simple installation, fast construction, compact design, high precision, and plug-and-play.

## Product Model And Appearance



SP2-1U



SP2-2U



SPB2 Cassettes

- Factory pre-terminated, plug and play during installation
- Optional 24-core LC adapter or 12-core SC adapter
- 1U can be equipped with up to 5 module boxes, and 2U can be equipped with up to 12 module boxes



Rj45 Patch Panel

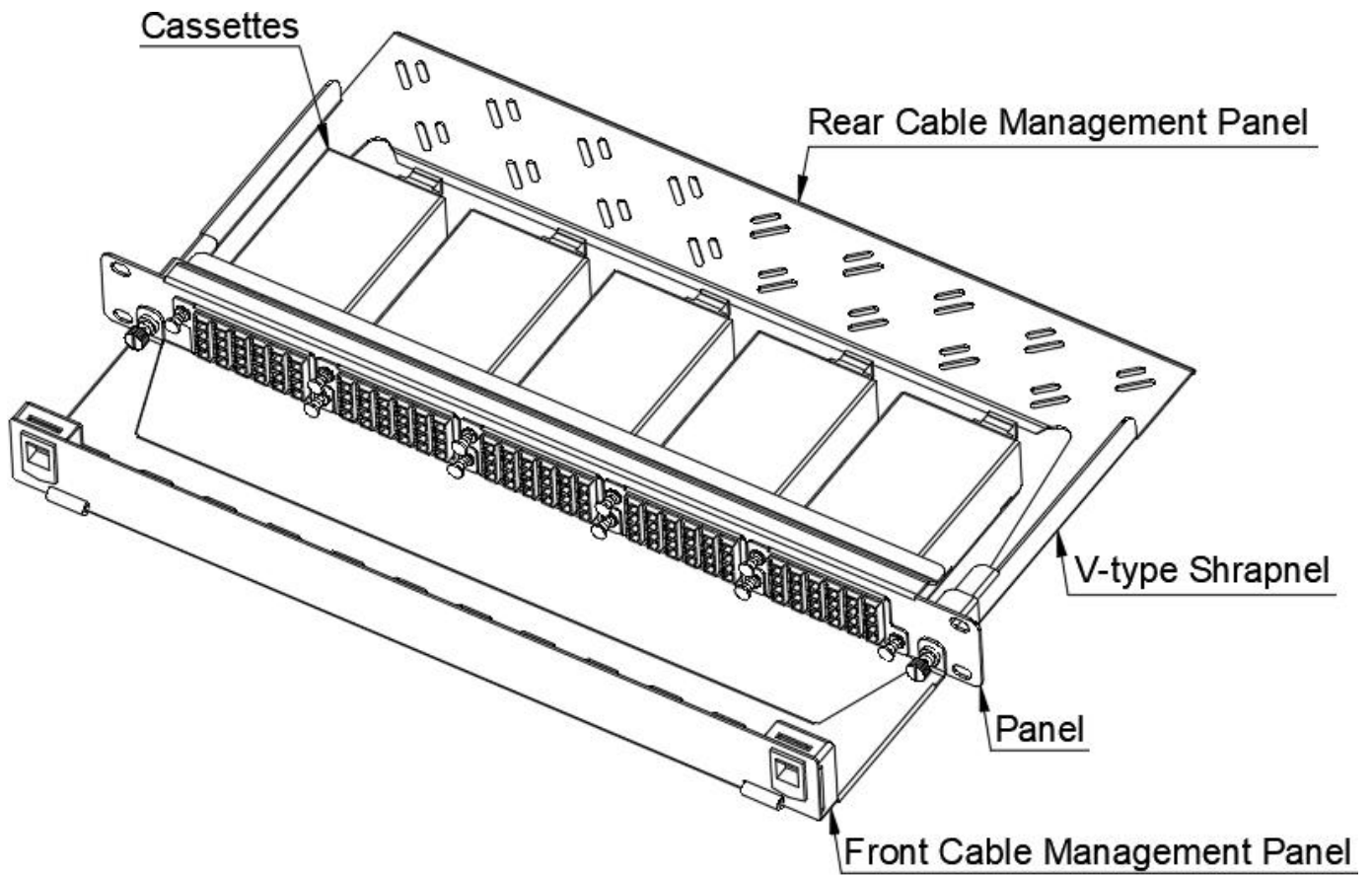
- Material: SPCC (cold rolled steel plate)
- Implementing modular jacks
- Color: Black



Blank Blind Plate

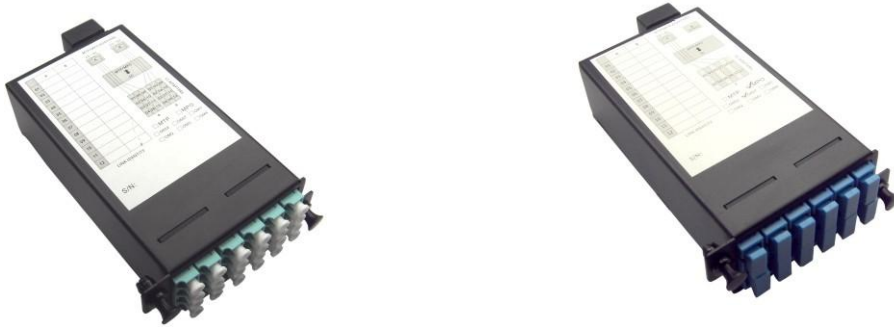
- Material: SPCC (cold rolled steel plate)
- Beautiful and dustproof
- Color: Black (fine sand texture spray)

## Patch Panel Structure



Product Specifications	
<b>Operating Temperature</b>	-20°C ~ +55°C
<b>Storage Temperature</b>	-20°C ~ +60°C
<b>Relative Humidity</b>	≤85%(+30 °C)
<b>Atmospheric Pressure</b>	70kPa ~ 106kPa
<b>Box Material</b>	Cold Rolled Steel Plate
<b>Dimensions(WxDxH)</b>	483mm×364mm×1U
<b>Number of cores</b>	1U-200F;2U-288F

## SPB2 Cassettes (MPO/MTP-LC/SC)

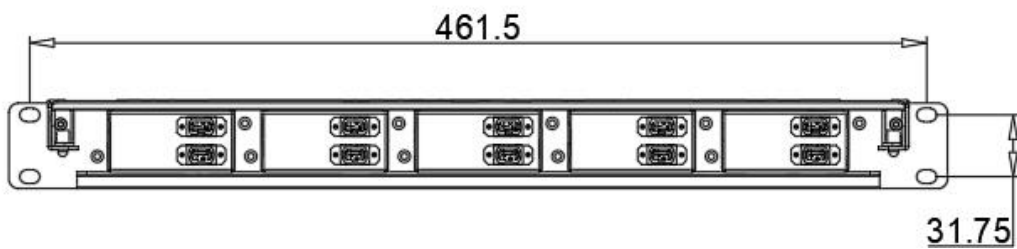
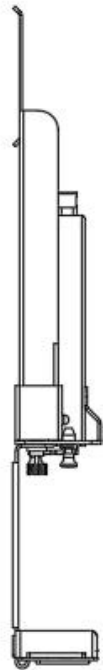
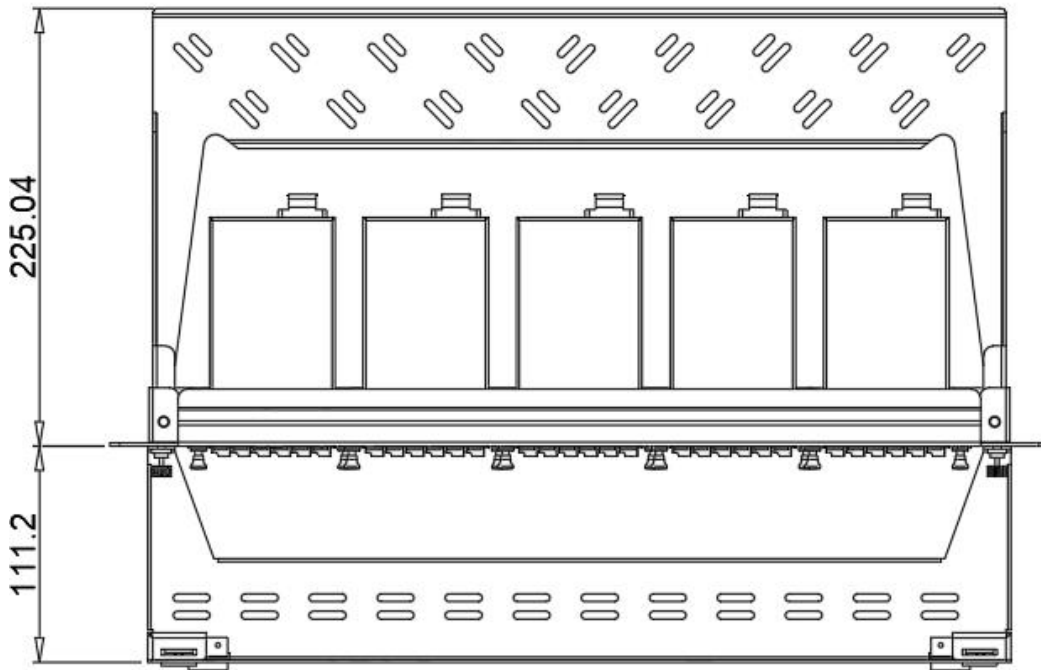
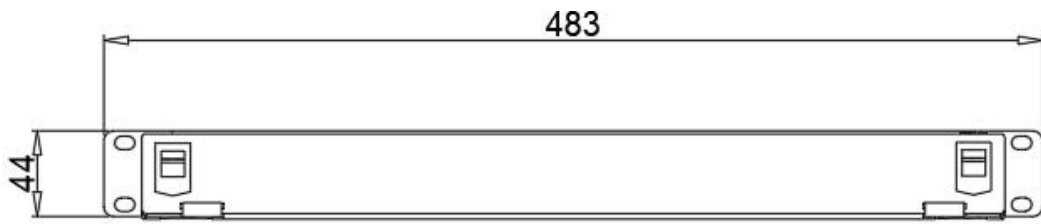


Technical Parameters	
<b>Number of optical fiber cores</b>	SC:12F/LC:24F
<b>Fiber polarity</b>	Type A
<b>Front connector</b>	LC straight quad (no ears) × 6Pcs / SC double (no ears) × 6Pcs
<b>Back-end connector</b>	SM: MPO/MTP (male) -APC
	MM: MPO/MTP (male) -PC
<b>Box material</b>	cold-rolled steel sheets
<b>Dimensions (W×D×H)</b>	88mm×118mm×34mm

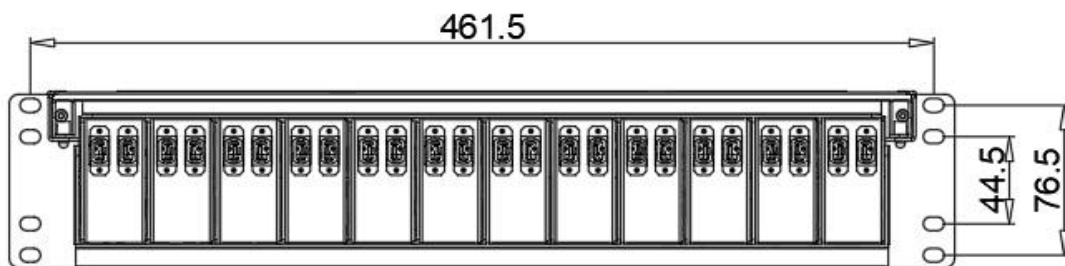
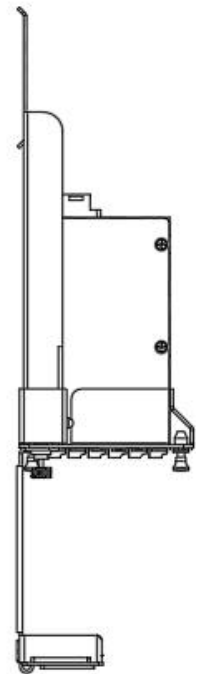
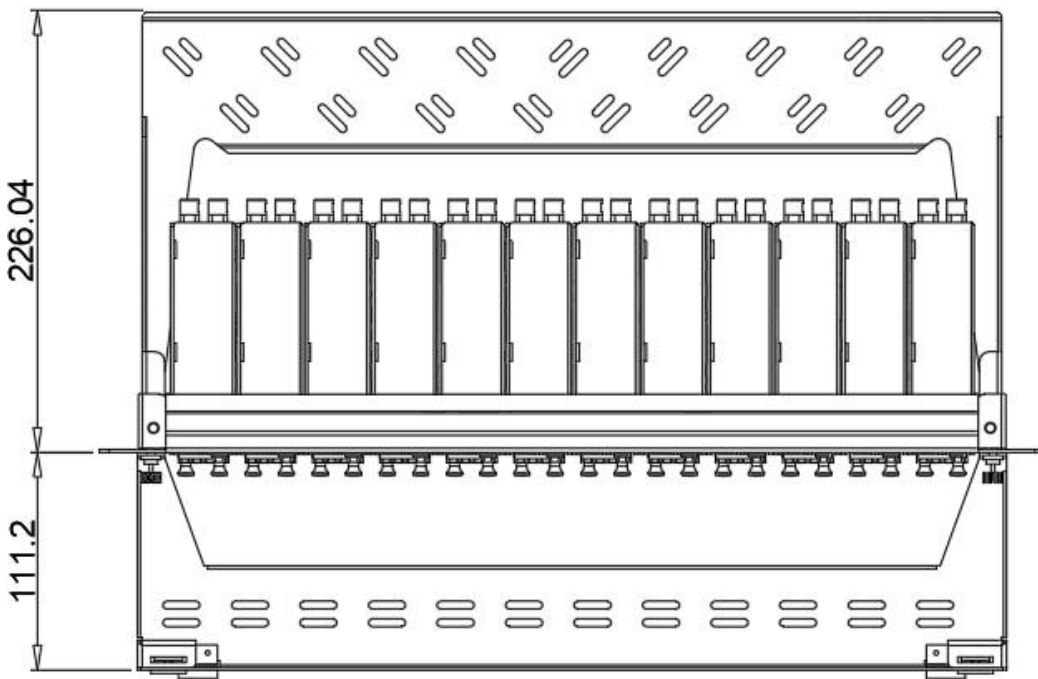
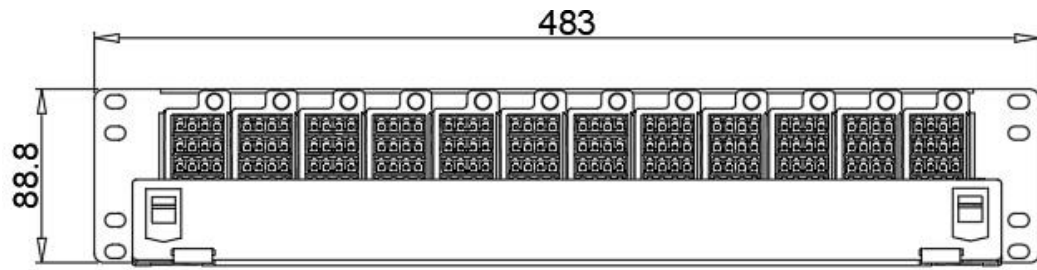
Performance parameters		
Type	Wavelength	Module return consumption (maximum)
MTP-LC/SC(MM)	850nm/1300nm	0.50dB
MTP-LC/SC(SM)	1310nm/1550nm	1.30dB
MPO-LC/SC(MM)	850nm/1300nm	0.75dB
MPO-LC/SC(SM)	1310nm/1550nm	1.50dB

Note: SM: single mode, MM: multimode

# SP2-1U 2D View



# SP2-2U 2D View

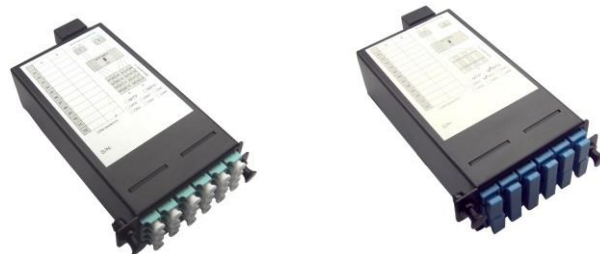


## Ordering Information



### Patch Panel-SP2

$\text{SP2} - \text{EM} - \text{SP} - \text{B} - \text{9004} - \text{1U}$ 1      2      3      4      5      6	
<b>1-Model</b>	SP2
<b>2-Configuration</b>	EM: empty box;
<b>3-Main Material</b>	SP: Cold Rolled Steel Plate
<b>4-Surface Spraying</b>	B: Fine sand texture
<b>5-Spray Color</b>	9004:RAL9004
<b>6-Box Height</b>	1U;2U
Note: 1.SP2-1U can accommodate up to 5 cassettes. The blind plate is used to fill the gap when the box is not fully equipped with 5 modules. That is, under normal circumstances: the number of modules + the number of blind plates = 5; 2.SP2-2U can accommodate up to 12 cassettes. The blind plate is used to fill the gap when the box is not fully equipped with 12 modules. That is, under normal circumstances: the number of modules + the number of blind plates = 12;	



### Cassettes/Panel-SPB2

$\text{SPB2} - \text{EM} - \text{SP} - \text{B} - \text{9004} - 2 \times 12 - \text{MPO/PC} - \text{LC/UPC} - \text{OM3}$ 1      2      3      4      5      6      7      8      9	
<b>1-Model</b>	SPB2
<b>2-Configuration</b>	EM:empty box; AD:with adapter; AP:with adapter and jumper
<b>3-Main material</b>	SP: Cold rolled steel sheet
<b>4-Surface spraying</b>	B: Fine sand texture
<b>5-Spray color</b>	9004:RAL9004
<b>6-Number of module jumpers</b>	2×12:two 12F cables;1×24:one 24F cable;1×12:one 12F cable
<b>7-Backend connector</b>	MPO/PC; MPO/APC; MTP/PC; MTP/APC
<b>8-Front end connector</b>	LC/UPC; LC/APC; SC/UPC; SC/APC
<b>9-Fiber optic connection type</b>	G657A1; OM1; OM2; OM3; OM4; OM5
Note: 1. Adapter requirements: ①. LC: Inline quadruple short ear type (asymmetric, plastic buckle); ②. SC: Double short ear type; ③. MPO: Standard flange, one key facing up and the other key facing down; ④. MTP: Standard flange, USCONEC specified, one key facing up and the other key facing down;	



Shenzhen Spring Optical Communication Co.,Ltd

Add: 1611, Building A, Zhongan Science And Technology Park, Longhua District, Shenzhen, Guangdong, China

mail: [sales@springoptic.com](mailto:sales@springoptic.com)

Web: [www.springoptical.com](http://www.springoptical.com)