

Simaran

Product Specification Manual

Product Name: [SM-LC82P-SF](#)



Product Overview:

This is a high-performance, low-power 8+2+1 optical port 10/100/1000Mbps gigabit Ethernet switch, which is the first choice for small and medium-sized local area networks. It provides 8 10/100/1000Mbps ports, plus 2 UP LINK/1000Mbps ports and 1 1000Mbps optical port, which can be used to connect higher-bandwidth upstream devices. Adopting store-and-forward technology, combined with dynamic memory allocation, it ensures that bandwidth is effectively allocated to each port. It supports intelligent configurations such as port-based VLAN and tag-based VLAN, port aggregation, bandwidth control, port mirroring, priority, static MAC address table, and port security. The 8+2+1 optical port 10/100/1000Mbps gigabit switch supports half-duplex flow control and full-duplex backpressure mode, and each switch port supports adaptive function. The ports use store-and-forward mode to effectively isolate broadcast storms, reduce packet loss and error packets, avoid network congestion and network conflicts. This product has superior performance, is easy to use, convenient and intuitive, and provides an ideal network solution for workgroup users and intelligent community broadband access.

Application:

This switch is widely used in small local area networks, small and medium enterprise LANs.

Product features:

- ◆ Complies with IEEE 802.3, IEEE 802.3u, and IEEE 802.3ab standards
- ◆ 10* 10/100/1000Mbps adaptive RJ45, supporting automatic flipping (Auto MDI/MDIX) and 1 1000Mbps fiber optic interface

- ◆ Full duplex and half duplex operation with IEEE 802.3X flow control and back pressure
- ◆ Supports 9216 bytes of giant packet length forwarding at wire speed
- ◆ Supports 96 import ACL rules
- ◆ Supports 4K MAC address
- ◆ Supports 32K-byte EEPROM configuration
- ◆ Supports IEEE802.3 af / at
- ◆ Supports IVL, SVL, and IVL/SVL
- ◆ Supports IEEE 802.1x Access Control Protocol
- ◆ Supports IEEE 802.3az EEE(Energy-Efficient Ethernet)
- ◆ Supports stacking and QoS
- ◆ Supports line speed forwarding and intelligent recognition
- ◆ Support MAC address learning, automatically adjust transmission methods and rates;
- ◆ Non blocking switching architecture, full line speed forwarding and maximum throughput filtering of data packets
- ◆ All ports support IEEE 802.3x half duplex flow control and full duplex backpressure mode
- ◆ Support 25M clock, RFC MIB Counter
- ◆ Built-in application power supply
- ◆ Standard hardware shell design

Specifications:

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|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chip solution | RTL8367S+RTL8367S+2*DH2184 |
| Standards / Protocols | IEEE 802.1Q , IEEE 802.1x,IEEE 802.3ad,IEEE 802.3af/at |
| Topological structure | star-shaped |
| Network media | 10BASE-T: Unshielded category 3, category 4, category 5 twisted pair (maximum 100m) 1000BASE-TX/1000BASE-T: Unshielded category 5, over category 5 twisted pair (maximum 100m) SFP 1000BASE-X:MMF SMF |
| Ethernet Port | 8*10/100/1000M RJ45 PoE ports (Auto Negotiation/Auto MDI/MDIX) 2*10/100/1000M UP-LINK ports (Auto Negotiation/Auto MDI/MDIX) 1*1000Mbps optical port |

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| concatenation | All ports can be used as UP-LINK ports |
| Forwarding method | Store and forward |
| MAC address storage | 4K |
| Exchange capacity | 22Gbps |
| forwarding rate | 16.368Mpps |
| Cache | 1.5Mbits |
| Jumbo frame | 9216 bytes |
| Indicator light | each Power.System (Power:Red light) When the load is connected, the indicator status is steady light |
| | Per port Link/Activity (Link/Act:Green light) When the signal is connected, the status of the indicator light is blinking |
| power supply | AC:100-240V 50/60Hz Built-inDC:52V, 120W |
| Power supply pin | 1/2 (+) , 3/6 (-) (POE port only) |
| POE Port output power | Single port output maximum 30W,Total power 96W |
| Speed limit function | Support POE speed limit of 10M/100M (POE transmission distance can reach 250 meters when the speed limit is 10M) |
| Static power | MAX: 0.728W (220V/50Hz) |
| Use environment | Working temperature: -10 °C ~ 70 °C (32 °F ~ 127 °F) Storage temperature: -40 °C ~ 85 °C (-97 °F ~ 142 °F) Working humidity: 10% ~ 90% non-condensing Storage humidity: 5% ~ 95% non-condensing |
| Shell material | Metal |
| Dimensions (L × W×H) | 200×118×44mm |
| operating system | Support Windows / MAC OS / Netware / Linux operating system |

Postscript

This product is a universal POE switch for network cameras. It has small size, high efficiency and stable operation.

Features such as long transmission distance. With overload protection, output short circuit protection and other functions.