

# LA-SWM2-G0448P

Managed Gigabit 48Port PoE Switch, 48 x 10/100/1000Mbps RJ45 + 4 x Gigabit SFP



## Introduction

LA-SWM2-G0448P series is a Layer-2 managed switch (supporting PoE function). It has 48 x 10/100/1000Mbps adaptive RJ45 ports and 4 x SFP Gigabit optical ports (SFP can change to copper by using optical-to-copper transceiver). Each RJ45 port supports MDI/MDIX auto flip and wire-speed forwarding functions. Ports 1-48 can support PoE power supply, follow the IEEE802.3af/at standard, and can be used as a power-over-Ethernet device. It can automatically detect and identify the power-receiving device that meets the standard, and supply power to it through a network cable. Using store-and-forward mode, combined with QoS technology, to ensure that the bandwidth is effectively allocated to each port, it provides stable and reliable power and data transmission for high-power AP, network cameras, PTZ network dome cameras, PoE lighting and other security monitoring equipment.

## Specifications

|                     |  |
|---------------------|--|
| PART NO             | LA-SWM2-G0448P                                 |
| Provider Mode Ports |  |
| Fixed Port          | 48* 10/100/1000 Base-T + Uplink 4* 1000 Base-X |
| Management Port     | Support console                                |
| Power Interface     | 220V/AC Interface                              |
| LED Indicators      | PWR, SYS, Link/ACT LED                         |

| Cable Type & Transmission Distance |   |
|------------------------------------|---|
| Twisted-pair                       | Non PoE: 0-100m (CAT5e, CAT6)<br>PoE (1000Mbps): 0-100m (CAT5e, CAT6)<br>PoE (10Mbps): 0-250m (CAT5e, CAT6) |
| Mono-mode Optical Fiber            | 20/40/60/80/100KM   |
| Multi-mode Optical Fiber           | 550m  |
| Network Topology                   |   |
| Ring Topology                      | Support   |
| Star Topology                      | Support   |
| Bus Topology                       | Support   |
| Tree Topology                      | Support   |
| Hybrid Topology                    | Support   |
| Electrical Specifications          |   |
| Input Voltage                      | AC 100-240V 50/60Hz   |
| Total Power Consumption            | Non PoE full load < 40W<br>PoE full load < 600W   |
| PoE Support                        |   |
| PoE Port                           | 1-48  |
| PoE Protocol                       | 802.3af, 802.3at  |
| Pin Assignment                     | 1,2+; 3,6-  |
| PoE Management                     | Support   |
| Layer 2 Switching                  |   |
| Switching Capacity                 | 104G  |
| Packet Forwarding Rate             | 77.376 Mpps   |
| MAC Address Table                  | 16K   |
| VLAN                               | Support 4K  |
| Buffer                             | 12M   |
| Forwarding Delay                   | < 10us  |
| MDX/MIDX                           | Support   |
| Flow Control                       | Support   |
| Jumbo Frame                        | Support 10Kbytes  |
| Spanning Tree                      | Support STP/RSTP/MSTP   |
| Ring Protocol                      | Support ERPS  |
| Link Aggregation                   | Support 12 groups   |

|                                    |  |
|------------------------------------|--|
| Multicast                          | Support IGMP Snooping  |
| Port Mirroring                     | Support  |
| Storm Control                      | Support  |
| Interface Counters                 | Support  |
| QINQ                               | Support  |
| 802.1X                             | Support  |
| Radius/Mac Approve                 | Support  |
| Port Isolation                     | Support  |
| Rmon                               | Support  |
| NTP Client                         | Support  |
| DHCP Client                        | Support  |
| DHCP Snooping                      | Support  |
| Ping/Tracert Test                  | Support  |
| Fiber Transceivers DDM             | Support  |
| Convergence                        |  |
| ACL                                | Support ACL 500<br>Support IP standard ACL<br>Support MAC extend ACL<br>Support IP extend ACL  |
| QoS                                | Support QoS re-marking, priority mapping<br>Support SP, WRR queue scheduling<br>Support entry and exit speed limit<br>Support flow-based QoS |
| Management                         |  |
| CLI                                | Support  |
| Console                            | Support  |
| Telnet/SSH                         | Support  |
| WEB Management                     | Support  |
| Management IP                      | Support IPV4/IPV6  |
| SNMP                               | Support SNMPv1/v2c/v3  |
| User Management                    | Support  |
| System Log                         | Support  |
| Configuration File Download/Upload | Support  |
| Upgrade Firmware                   | Support  |

| Environment                       |   |
|-----------------------------------|---|
| Operating Temperature             | POE: -30°C ~ + 60°C<br>Non POE: -30°C ~ + 70°C                                  |
| Storage Temperature               | -40°C ~ + 70°C  |
| Relative Humidity                 | 5% ~ 95% non-condensing   |
| Thermal Methods                   | Non PoE: Fanless design, natural heat dissipation<br>PoE: forced cooling by fan |
| MTBF                              | 100,000h  |
| Mechanical Dimensions             |   |
| Product Size                      | 440* 300* 44mm  |
| Installation Method               | Rack mount  |
| Weight                            | Non PoE: 3.7kg<br>PoE: 4.4kg  |
| EMC & Ingress Protection          |   |
| Surge Protection of Power         | Common mode 6KV, differential mode 6KV  |
| Surge Protection of Ethernet Port | Common mode 4KV   |
| ESD                               | Contact 8K, air 15K   |
| Free Fall                         | 0.5meters   |
| Accessories                       |   |
| Accessories                       | Equipment, power cord, certificate, user manual, dust plug                      |

## Ordering Information

| PART NO        | DESCRIPTION  |
|----------------|--|
| LA-SWM2-G0448P | Managed PoE Ethernet Switch, 48 x 10/100/1000 Base-T RJ45 with PoE Uplink 4 x 1000 Base-X SFP AC100-240V 50/60Hz |
| LA-SWM2-G0448  | Managed Ethernet Switch, 48 x 10/100/1000 Base-T RJ45 Uplink 4 x 1000 Base-X SFP AC100-240V 50/60Hz              |