Datasheet Superic

Industrial L2 Managed PoE++ Switch





SP3006FM-L2 | SP3010FM-L2 | SP3012FM-L2

Hardware version: V2.0

Overview

Wi-Tek Superic industrial L2 managed PoE++ switch provide 4/8 Gigabit Ethernet RJ-45 ports and 2/4 2.5 Gigabit SFP uplink ports. Some RJ-45 ports comply with 802.3af/at/bt PoE standard and output up to 90W PoE power.

This series switch support Layer 2 management functions, such as VLAN, VLAN classification, QinQ, port mirroring, STP, RSTP, MSTP, IGMP, QoS, DHCP, multicast, ACL, dying gasp,LLDP, 802.1X, fiber transceiver DDM, PoE management, G.8032 ERPS protocol, IPV6 management, Web, SNMP, Telnet, TETP, etc.

Professional design provides a flexible, easy-to-use, and reliable industrial network solution. Redundant power design with polarity reverse/over-voltage/over-current protection guarantees a safe power supply. Solid shell, wide operation temperature from -40°C to 75°C, and high-level EMI/EMC capability design ensure its stable and reliable operation even in harsh environments.

It is the best choice for outdoor CCTV project, wireless coverage project and the project of industria application scenarios such as factory and transportation.

Features

Full Gigabit Interfaces Design

SP3006FM-L2: $4\times10/100/1000$ Base-T PoE ports and $2\times1000/2500$ Base-X SFP ports SP3010FM-L2: $8\times10/100/1000$ Base-T PoE ports and $2\times1000/2500$ Base-X SFP ports SP3012FM-L2: $8\times10/100/1000$ Base-T PoE ports and $4\times1000/2500$ Base-X SFP ports

-40~75°C Operating Temperature

-40~75°C working temperature design, makes it meet the requirement of harsh application environment.

High Level Protection Design

6kV surge immunity for power and Ethernet ports, 15kV air discharge and 8kV contact discharge ESD protection, makes it an ideal choice for outdoor application scenario.

Robust L2 Managed Functions

Support robust Layer 2 management functions, such as VLAN, VLAN classification, QinQ, port mirroring, STP, RSTP, MSTP, IGMP, QoS, DHCP, multicast, ACL, dying gasp, LLDP, 802.1X, fiber transceiver DDM, PoE management, G.8032 ERPS protocol, IPV6 management, which can meet the requirements of a simple industrial project. discharge ESD protection, makes it an ideal choice for outdoor application scenarios.

Redundant DC Power Input Design

Support redundant 44-57V DC power input, provide reliable alternative power access solutions.

Specifications







| Model | SP3006FM-L2 | SP3010FM-L2 | SP3012FM-L2 |
|------------------------|---|-------------------------------|-----------------------------|
| Interfaces | | | |
| Downlink Ports | 4 x 100/1000Mbps RJ45 ports | 8 x 100/1000Mbps RJ45 ports | 8 x 100/1000Mbps RJ45 ports |
| Uplink Ports | 2 x 1000M/2.5Gbps SFP ports | 2 x 1000M/2.5Gbps SFP ports | 4 x 1000M/2.5Gbps SFP ports |
| Management Port | 1 x Conslole Port | | |
| Performance | | | |
| Memory and Flash | 128MB DRAM, 128MB Flash | | |
| PoE | | | |
| PoE Port | Port 1– 4 | Port 1– 8 | Port 1– 8 |
| PoE Standard | Port1-2: 802.3af/at/bt | Port1-2: 802.3af/at/bt | Port1-2: 802.3af/at/bt |
| TOE Standard | Port3-4: 802.3af/at | Port3-8: 802.3af/at | Port3-8: 802.3af/at |
| PoE | Mid-span and End-span | | |
| PoE Pin Assignment | 1/2(+), 3/6(-), 4/5(+), 7/8(-) | | |
| | 90 W max for port1–2 90 W max for port1–2 | | |
| PoE Power | 30W max for port3-4 | 30W max for port3-8 | |
| | 120 W Max. (PoE power budget) | 240 W Max. (PoE power budget) | |
| Switch Property | | | |
| Forwarding Mode | Store and Forward | | |
| Switching Capacity | 18 Gbps | 26 Gbps | 36 Gbps |
| Packet Forwarding Rate | 13.39 Mpps | 19.34 Mpps | 26.78 Mpps |
| MAC Address Table | 16 k | | |
| Packet Buffer Memory | 2 Mbit 12 Mbit | | |
| Jumbo Frame | 10 kB | | |



Installation

Desktop, DIN-rail





| | | - | |
|----------------------------------|----------------------------------|-----------------------------------|----------------------------------|
| Model | SP3006FM-L2 | SP3010FM-L2 | SP3012FM-L2 |
| Power Supply | | | |
| | Power 1 (Main): 44-57V DC | | |
| Input Power | Power 2 (Backup): 44-57V DC | | |
| Davis Oceanis de la constitución | Idle: 8 W 100% Traffic Rate with | Idle: 10 W 100% Traffic Rate with | Idle:15 W 100% Traffic Rate with |
| Power Consumption | PoE: 128 W | PoE: 250 W | PoE: 255 W |
| Physical Characteristics | | | |
| | P | Р | Р |
| | Off: the device is power off or | Off: the device is power off or | Off: the device is power off or |
| | failed | failed | failed |
| | Green On: the device power on is | Green On: the device power on is | Green On: the device power on is |
| | normal | normal | normal |
| | S | S | S |
| | On: device on normal operation | On: device on normal operation | On: device on normal operation |
| | Blinking: device initialization | Blinking: device initialization | Blinking: device initialization |
| | | | |
| LED Indicators | Link | Link | Link |
| | Off: ports link down | Off: ports link down | Off: ports link down |
| | On: ports link up | On: ports link up | On: ports link up |
| | Blinking: data on TX/RX | Blinking: data on TX/RX | Blinking: data on TX/RX |
| | PoE | PoE | PoE |
| | Off: PoE not working | Off: PoE not working | Off: PoE not working |
| | On: PoE working | On: PoE working | On: PoE working |
| | 5, 6(Fiber ports indicators) | 9, 10(Fiber ports indicators) | 9–12(Fiber ports indicators) |
| | Off: ports link down | Off: ports link down | Off: ports link down |
| | Green On: ports link up | Green On: ports link up | Green On: ports link up |
| | Green Blinking: data on TX/RX | Green Blinking: data on TX/RX | Green Blinking: data on TX/RX |
| Fan Quantity | Fanless | | 9 |
| Switch Dimensions | 179*124*54 mm | | |
| Package Dimensions | 233*184*72 mm | | |
| | Net Weight: 1.18 kg | Net Weight: 1.19 kg | Net Weight: 1.28 kg |
| Weight | Package Weight: 1.34 kg | Package Weight: 1.36 kg | Package Weight: 1.38 kg |
| | | | |







| Model | SP3006FM-L2 | SP3010FM-L2 | SP3012FM-L2 |
|----------------------------------|--|-------------|-------------|
| Environmental | | | |
| Surge Immunity of Ethernet ports | IEC 61000-4-5 Common mode 6kV Differential mode 2kV | | |
| Surge Immunity of power | IEC 61000-4-5 Common mode 6kV Differential mode 4kV | | |
| ESD Protection | IEC 61000-4-2 Contact discharge 8kV Air discharge 15kV | | |
| Operating Temperature | -40°C ~ 75°C(-40°F to 167°F) | | |
| Storage Temperature | -40°C ~ 85°C(-40°F to 185°F) | | |
| Operating Humidity | 10% ~ 90% (Non-condensation |) | |
| Storage Humidity | 5% ~ 95% (Non-condensation) | | |
| Certification | | | |
| Certification | CE, FCC, RoHS, UKCA, RCM | | |







| Model | SP3006FM-L2 | SP3010FM-L2 | SP3012FM-L2 |
|------------------|---|------------------------------|-------------|
| Software Feature | | | |
| Port aggregation | Support 1GE port aggregation | | |
| | Support 2.5GE aggregation | | |
| | Support static aggregation | | |
| | Support LACP dynamic aggregation | | |
| | Up to 64 aggregation groups and up to 8 ports per group | | |
| | Support IEEE802.3x flow control | | |
| | Support port traffic statistics | | |
| Port features | Support Broadcast Storm (Broadcast; Unknown Multicast; Unknown Unicast) | | |
| | Support Loop Detection (Port Based; VLAN Based) | | |
| | Support Port mirroring (One-to-One; Many-to-One; Tx/Rx/Both) | | |
| | Support Mac Based VLAN | | |
| | Support IP Based VLAN | | |
| VLAN | Support Protocol Based VLAN | | |
| | Support GVRP (normal mode; fixed mode; forbidden mode) | | |
| | Support QinQ (Port-based Qi | nQ; VLAN-based QinQ; VLAN-ba | sed QinQ) |
| | Support IEEE 802.1D-STP | | |
| | Support IEEE 802.1W -RSTP | | |
| Ring network | Support IEEE 802.1S -MSTP | | |
| protocol | Support BPDU Guard | | |
| | Support G.8032 ERPS protoco | ol | |
| | Support option-82 | | |
| DHCP | Support DHCP Client | | |
| | Support DHCP Snooping | | |







| Model | SP3006FM-L2 | SP3010FM-L2 | SP3012FM-L2 | |
|--------------|--|----------------------------|-------------|--|
| L2 Multicast | Support Group Address | | | |
| EZ Warriodot | Support IGMP snooping | | | |
| ACL | Support IP Standard ACL | | | |
| | Support IP extend ACL | | | |
| | Support MAC extend ACL | | | |
| | Support L2, L3 | | | |
| | 8 priority queues | | | |
| 200 | 802.1p CoS/DSCP priority | | | |
| QoS | Queue scheduling (SP (Strict Priority); WRR(Weighted Round Robin)SP+WRR) | | | |
| | Rate Limit (Ingress / Egress | Port; Egress Queue) | | |
| | Static mac-address manage | ement | | |
| mac-address | Dynamic mac-address management) | | | |
| | Filtering mac-address | | | |
| | Support RADIUS/TACACS+ | | | |
| | Support Dot1x (port authentication, MAC authentication) | | | |
| Coough | Support RADIUS authentication access switch (Telnet; SSH; HTTP) | | | |
| Security | ARP Check | | | |
| | Support IP Source Guard (P | ort-based IP/mac binding a | ccess) | |
| | Support port isolation | | | |
| | DHCP IPv6 Client | | | |
| | Ping IPv6 | | | |
| IPV6 | Tracert IPv6 | | | |
| | Telnet IPv6 | | | |
| | SNMP IPv6 | | | |
| | SSH IPv6 | | | |
| | Http IPv6 | | | |
| | TFTP IPv6 | | | |
| | Dual IPv4/IPv6 | | | |
| | | | | |



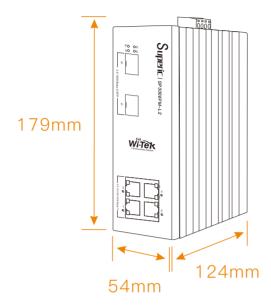




| Model | SP3006FM-L2 | SP3010FM-L2 | SP3012FM-L2 | | |
|----------------|--------------------------------|-------------|-------------|--|--|
| | Support Syslog | | | | |
| | Support RMON(1,2,3 &9) | | | | |
| | Support NTP/SNTP(RFC2030) | | | | |
| | Support Ping; TRACERT | | | | |
| Management and | Support optical transceiver DD | M function | | | |
| maintenance | Support TFTP Client | | | | |
| | Support TFTP, web upgrading | | | | |
| | Configuration Export/import | | | | |
| | Support IPv6 Management | | | | |
| | Support PoE management | | | | |

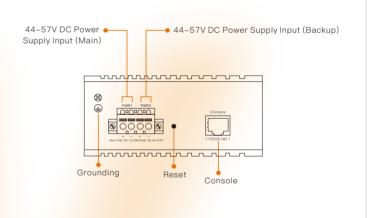
SP3006FM-L2

Dimensions (mm)



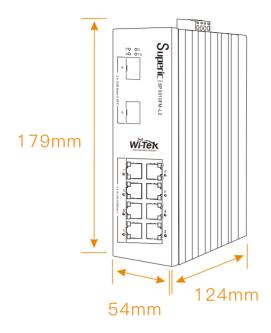
2×10/100/1000 Base-T PoE++ Ports 2×1000/2500 Base-X SFP ports 2×1000/2500 Base-X SFP ports 2×10/100/1000 Base-T PoE+ Ports

Side Panel



SP3010FM-L2

Dimensions (mm)

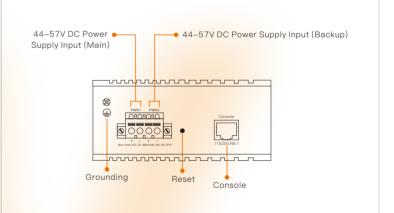


6x10/100/1000 Base—T PoE+ Ports 2x1000/2500 Base—X SFP ports 2x1000/2500 Base—X SFP ports

2×10/100/1000 Base-T PoE++ Ports

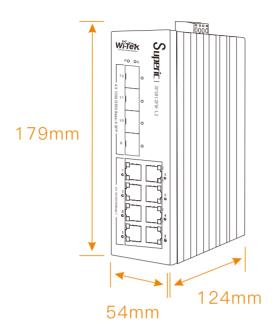
LED Indicators

Side Panel



SP3012FM-L2

Dimensions (mm)

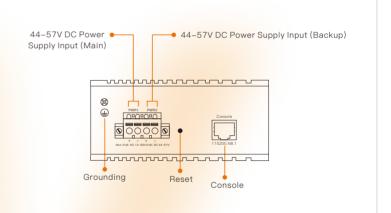


Front Panel 6×10/100/1000 Base-T PoE+ Ports 4×1000/2500 Base-X SFP ports 71-WdZ LOEds | Judding

2×10/100/1000 Base-T PoE++ Ports

LED Indicators

Side Panel



Package Contents

Welcome to order our products. After purchasing, you will receive:

| Items | Quantity |
|--------------------------|----------|
| Switch | 1 pcs |
| Quick Installation Guide | 1 pcs |



Wireless-Tek Technology Limited

Address: Building 3, Units 1801-1807, 1812, Huaqiang Era

Plaza, Tangwei Community, Fuhai Street, Bao'an District,

Shenzhen City, Guangdong Province, China.

Website:www.wireless-tek.com

Tel:86-0755-32811290

Email:sales@wireless-tek.com

Technical Support:tech@wireless-tek.com







Cloud Management



Company Website

©2024 Wireless-tek Technology Limited. All Rights Reserved.

Version, V1.0, updated 2024.03.25.

The information in this document is subject to change without notice.

Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.