

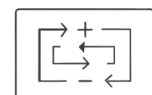


WL-SG300 Series

The WL-SG300 Series is a fully Gigabit industrial Ethernet fiber switch engineered for demanding environments in industrial automation, power systems, transportation, and energy sectors. It features five 10/100/1000BASE-T adaptive Ethernet ports and Gigabit SFP fiber port optional (supporting 1x9 or SFP modules), delivering full line-rate forwarding to meet diverse fiber access requirements.

Housed in a robust IP40-rated enclosure, this switch offers exceptional mechanical strength, environmental resilience, and electromagnetic compatibility (EMC). Its fanless, low-power thermal design and triple redundant power inputs ensure high availability, with an MTBF exceeding 35 years. As a non-managed switch, it supports plug-and-play deployment for simple, maintenance-free operation.

The WL-SG300 Series is ideally suited for intelligent transportation, rail transit, mining, petrochemicals, marine ports, metallurgy, and renewable energy applications, providing a stable and reliable industrial communication backbone.



Reverse Connection Protection

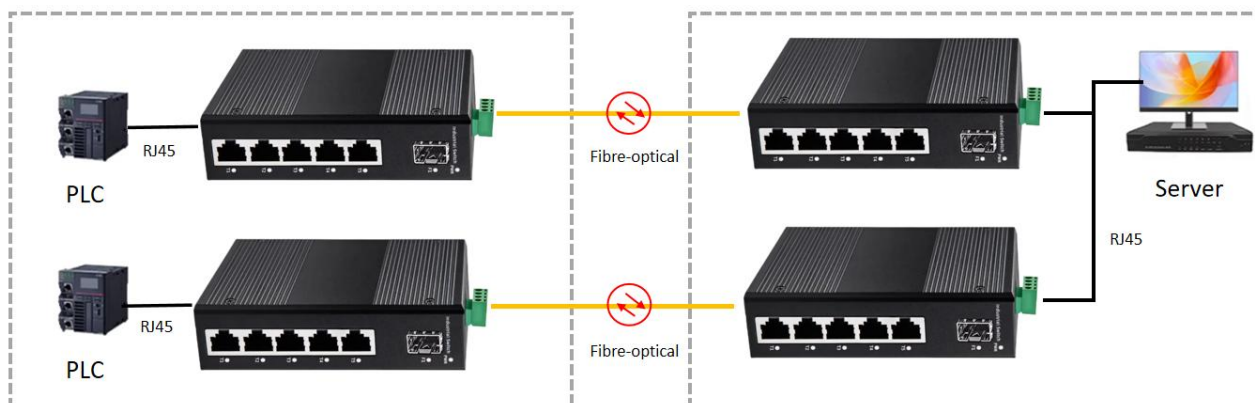


Short-circuit Protection



Surge Protection

Typical Application



Key Features

- Provides 5 x 10/100/1000Base-T RJ45 ports and 1x 1000Base-X Fiber port
- Fiber port available in 1x9 optical module or SFP module versions
- Supports IEEE 802.3x full-duplex flow control and Backpressure half-duplex flow control
- 9-57V DC triple-redundant power inputs
- Power input supports reverse-polarity protection
- 6kV surge protection, 8kV contact ESD, and 15kV air ESD protection
- Excellent EMC/EMI performance ensures stable operation in complex electromagnetic environments
- Low-power, fanless design with an aluminum alloy enclosure for superior heat dissipation and long-term stability
- Power (PWR) and Link/Act indicators allow users to easily monitor device operating status

Physical	
Interface	5 x 10/100/1000Base-T RJ45 ports (Data) 1 x 1000Base-X Fibre port (Data)
Ethernet	10/100/1000BaseT(X) auto-detect,full/half-duplex MDI/MDI-X adaptive
Fiber Port	Optional optical module versions: 1 x 9 module or SFP module
Network Protocol	IEEE802.3 10BASE-T IEEE802.3i 10Base-T IEEE802.3u 100Base-T X IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X IEEE802.3x
Forwarding Mode	Store-and-forward (full wire speed)
Backplane Bandwidth	12Gbps (non-blocking)
Packet Forward Speed	8.92Mpps
Packet Buffer	2. 1M
Transmission Distance	10BASE-T: Cat3,4,5 UTP (≤100 metres) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e and above UTP (≤100m) Multi-mode Operating wavelength: 850nm , transmission distance:0~500 m Single-mode Operating wavelength: 1310nm, transmission distance:0~40km;Operating wavelength: 1550nm,transmission distance:0~120km

LED Indicator	Power indicator: PWR Interface indicators: Electrical port, Optical port (Link indicator)
Power Supply	Input voltage: DC 9~57V Power interfaces: 1x DC5521 jack, and 2x V+/V- redundant DC power inputs (4-pin Phoenix connector) Redundant power design with reverse-polarity protection
Power Consumption	No-load power consumption:1. 1W full-load power consumption:3.34W
Mechanical properties	Enclosure: IP40 protection rating, aluminium alloy housing Cooling method: Natural cooling, fanless Dimensions: 116x85x33 mm Weight: 0.31 kg Mounting options: Desktop, 35 mm DIN rail mounting
Working environment	Operating temperature: -40 to 85° C (-40 to 185° F) Storage temperature: -40 to 85° C (-40 to 185° F) Relative humidity: 5% to 95% (non-condensing)
Industry standard	IEC 61000-4-2 (ESD): ± 8 kV contact discharge, ± 15 kV air discharge IEC 61000-4-3 (RS): 10V/m (80~ 1000MHz) IEC 61000-4-4 (EFT): Power line: ± 4 kV; Data line: ± 2 kV IEC 61000-4-5 (Surge): Power line:CM ± 4 kV/DM ± 2 kV;Data line: ± 4 kV IEC 61000-4-6 (Radio Frequency Conducted):10V(150kHz to 80 MHz) IEC 61000-4-8 (Power Frequency Magnetic Field):100A/m continuous; 1000 A/m, 1 s to 3 s IEC 61000-4-9 (Pulsed Magnetic Field): 1000 A/m IEC 61000-4-10 (Damped Oscillatory Field): 30 A/m at 1 MHz IEC 61000-4-12/ 18 (Surge Wave): CM 2.5 kV, DM 1 kV IEC 61000-4-16 (Common-Mode Conducted):30V continuous;300V, 1s FCC Part 15/CISPR22 (EN55022): Class B IEC61000-6-2 (General Industrial Standards) IEC60068-2-6 (Vibration Resistance) IEC60068-2-27 (Shock Resistance) IEC60068-2-32 (Free Fall)
Warranty	5 years for the whole machine (excluding accessories)

Order Model Number list			
Part NO.	Gigabit Ethernet Ports	SFP Ports	Picture
WL-SG300-5	5 GBE Switch Ports	0	
WL-SG300-5-F1	5 GBE Switch Ports	1	
WL-SG300-4-F2	4 GBE Switch Ports	2	