Queclink | Networks

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WS101

Industrial PoE switch



- **4× Gigabit PoE**
- **1× Gigabit RJ45 uplink**
- **1× SFP**

- **4× Gigabit PoE, 1× Gigabit RJ45 uplink, 1× SFP**
- **IEEE802.3af/at, up to 150W shared power budget**
- **PoE watchdog for zero-touch maintenance**
- **Redundant 48-55V DC power feed for hot-swap protection**
- **Ruggedized and compact design**
- **Built-in 35mm DIN Rail clip**

WS101 is a hardened PoE switch built for harsh factory floors. Four 10/100/1000 PoE ports—one 60W and three 30W (af/at)—share a 150W power budget, while a dedicated Gigabit RJ45 uplink and an SFP slot provide flexible, long-distance backhaul. The switch supports PoE watchdog to auto-detect and restart hung PDs. Three DIP switches instantly enable or disable port isolation mode, PoE watchdog, and extended-range mode—no software configuration required. The compact metal enclosure mounts directly onto standard 35mm DIN rails. It is powered by a redundant 48–55V DC input via terminal blocks (V1/V2), featuring hot-swap protection and plug-and-play compatibility with industrial power buses.

Industrial automation networks



Smart transportation systems



Smart building



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General Specifications

Casing material	Steel
Dimensions	120(W) x 87(D) x 30(H) mm
Weight	441g
Mainboard power consumption	4.96W(typical)
Mounting options	Desktop, wall mounting installation, DIN Rail installation
Operating voltage	DC 48-55V
Operating temperature	-40°C to 75°C
Operating humidity	10% to 90% non-condensing
Certification	CE, FCC, RoHS compliant

Switch parameters

Bandwidth	12Gbps
Packet forwarding rate	8.928Mpps
Packet buffer	1Mbit
MAC address table	2K
Jumbo frame	Supported
Forward mode	Store and forward

PoE OUT

PoE ports	Port 1 delivers up to 60W Port 2-4 delivers up to 30W
PoE standard	IEEE802.3af(15.4W) IEEE802.3at(30W)
Output voltage	48-55V DC

Physical interfaces

Ethernet	5 x RJ45 ports, 10/100/1000Mbps
Fiber	1 x SFP port
Status LEDs	1 x Power status LED 5 x RJ45 status LEDs 1 x SFP status LED
DIP switch	V/G/E mode
Power connection	1 x 4 pin industrial terminal block with redundant V1 and V2 1 DC 2.1 jack The terminal block and the DC jack must not be powered simultaneously
Other	1 x grounding screw

Ethernet

RJ45	5 x RJ45 ports, 10/100/1000Mbps
Fiber	1 x SFP port
IEEE 802.3 series standards	802.3, 802.3u, 802.3ab, 802.3z, 802.3x

DIP function

VLAN mode(V)	Enabled: ports 1-4 are isolated from each other; only communicate with uplink ports 5-6; Disabled: all ports share one broadcast domain.
Genius mode(G)	Enable or disable PoE Watchdog for ports 1-4
Extend mode(E)	Enabled: ports 1-4 drop to 10Mbps to extend the transmission distance up to 250 m; Disabled: ports 1-4 support 10/100/1000Mbps auto-negotiation and provide a transmission distance of up to 100 meters.