

QUANT 7300 POE SWITCH SERIES



Q-IE-7300-8P-8S-E

PRODUCT OVERVIEW

The **Quant 7300 managed industrial PoE switch series** is a Gigabit managed industrial PoE switch with 8×100/1000Base-X SFP fiber ports and 8×10/100/1000Base-T RJ45 ports, supporting IEEE 802.3af/at PoE up to 30W per port. It powers devices like wireless APs, IP cameras, and VoIP phones through network cables, ideal for industrial, transportation, and energy applications.

It features L2+ management, IPv4/IPv6, ACL/QoS, VLAN, and supports STP/RSTP/MSTP (<50ms) and ERPS (<20ms) for reliable network redundancy. Configuration and PoE management are available via Web, CLI, SNMP, or Telnet, ensuring flexible, secure, and stable communication in demanding environments.

PRODUCT FEATURE

- **Gigabit Access & Uplink:** 8×RJ45 and 8×SFP fiber ports with non-blocking wire-speed forwarding and flexible full/half-duplex operation.
- **Smart PoE:** Supports IEEE 802.3af/at PoE up to 30W per port with power allocation, priority control, and scheduling for APs, cameras, and sensors.
- **Advanced Networking:** Supports ERPS, STP/RSTP/MSTP, VLAN, QoS, ACL, IGMP Snooping, and link aggregation for reliable, high-performance communication.
- **Enhanced Security:** Features port isolation, storm suppression, 802.1X authentication, and IP+MAC+port+VLAN binding.
- **Industrial Design:** Aluminum alloy housing, low power consumption, LED indicators, and certifications (CCC, CE, FCC, RoHS) ensure stability and durability.

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TECHNICAL SPECIFICATION

Model	Ethernet Ports	Uplink Ports	SFP Uplink	Network Protocol	Transmission Distance	Console Port
Connectivity						
Q-IE-7300-8P-8S-E	8 × 10/100/1000Base-T RJ45 PoE ports	Gigabit SFP fiber (supports single/multi-mode)	8 × 100/1000Base-X SFP fiber ports	IEEE 802.3af/at, up to 30W per port	850nm/ 0- 550m,1310nm/ 0- 40km, 1550nm/ 0- 120km.	1 × RS232 (115200, N, 8, 1)

Model	Switching Capacity	Forwarding Rate	MAC Address Table	Buffer Memory	Jumbo Frame	Forwarding Mode	Input Voltage
Performance and Efficiency							
Q-IE-7300-8P-8S-E	128 Gbps (non- blocking)	23.81 Mpps	16K	12M	12K	Store-and-Forward, Full Wire Speed	30 W

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TECHNICAL SPECIFICATION



Model	Q-IE-7300-8P-8S-E
Interface Characteristics	
Downlink Ports	Power failure alarm switch port (FAULT) 1*Console RS232 port (115200, N, 8,1) 8*10/100/1000Base-T PoE ports (Data/ Power) 8*100/1000Base-X uplink SFP fiber ports (Data) 2*DC48-57V input ports (support reverse connection protection)
Ethernet Port	Port 1-8 can support 10/100/1000Base-T(X) auto-sensing, full/ half duplex MDI/ MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤100 meters) 100BASE-TX: Cat5 or later UTP (≤100 meters) 1000BASE-T: Cat5e/6 or later UTP (≤100 meters)
Optical Fiber Port	Gigabit optical fiber port, default no include optical modules (optional single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)
Optical Fiber Port Expansion	Turbo overclocking 2.5G optical module expansion and ring network
Chip Parameter	
Network Management Type	L2+
Forwarding Rate@64byte	23.81Mpps
CPU	800MHz
LED Indicator	System: SYS (Green), Network: Link (Yellow), PoE: PoE (Green), Fiber port: L/A (Green)
Reset Switch	Yes, press and hold the switch for 10 seconds and release it to restore the factory settings
PoE& Power Supply	
PoE Port	Port 1-8
PoE Management	Port PoE real-time load power display, Port PoE output on/off, PoE work and time scheduling
Power Consumption	Standby<13W, full load af<120W, at<240W

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TECHNICAL SPECIFICATION

Model	Q-IE-7300-8P-8S-E
Physical Parameter	
Operation TEMP/ Humidity	-20~+55°C, 5%~90% RH Non condensing
Storage TEMP/ Humidity	-40~+75°C, 5%~95% RH Non condensing
Dimension (L*W*H)	166*150*75mm
Weight	2.1kg
Installation	Desktop, 35mm DIN Rail
Certification & Warranty	
Lightning protection	IEC61000-4-3 (RS):10V/m (80-1000MHz) FCC Part 15/CISPR22 (EN55022): Class A IEC61000-6-2 (Common Industrial Standard) IEC61000-4-9 (Pulsed magnet field): 1000A/m IEC61000-4-10 (Damped oscillation): 30A/m 1MHz IEC61000-4-12/18 (Shockwave): CM2.5kV, DM1kV Protection level: IP40, Lightning protection: 6KV 8/20us IEC61000-4-4(EFT): Power cable: ±4kV, data cable: ±2kV IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s IEC61000-4-2 (ESD): ±8kV contact discharge, ±15kV air discharge IEC61000-4-6 (Radio frequency transmission): 10V(150kHz~80MHz) IEC61000-4-8 (Power frequency magnetic field): 100A/m, 1000A/m, 1s-3s IEC61000-4-5 (Surge): Power cable: CM±4kV/ DM±2kV, data cable: ±4kV
Mechanical Properties	IEC60068-2-6 (Anti Vibration), IEC60068-2-27 (Anti Shock), IEC60068-2-32 (Free Fall)
Certification	CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class A, RoHS
Country of Origin	Vietnam
Warranty	2 Years

ORDERING INFORMATION

Model	Description	Input Voltage
Q-IE-7300-8P-8S-E	Gigabit 8-port L2+ managed industrial PoE switch with 8*100/1000M uplink SFP fiber ports	30 W

