

## 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                   |
|--------------------------|--|--|--|---|--|--------------------------------|
| <b>Connectivity</b>      |  |  |  |   |  |                                |
| <b>Q-IE-7300-8P-8S-E</b> | 8 ×<br>10/100/1000Base-T<br>RJ45 PoE ports | Gigabit SFP fiber<br>(supports<br>single/multi-mode) | 8 ×<br>100/1000Base-X<br>SFP fiber ports | IEEE 802.3af/at,<br>up to 30W per<br>port | 850nm/ 0-<br>550m,1310nm/ 0-<br>40km, 1550nm/ 0-<br>120km. | 1 × RS232<br>(115200, N, 8, 1) |

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

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### TECHNICAL SPECIFICATION



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

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### TECHNICAL SPECIFICATION

| Model                               | Q-IE-7300-8P-8S-E  |
|-------------------------------------|--|
| <b>Physical Parameter</b>           |  |
| Operation TEMP/<br>Humidity         | -20~+55°C, 5%~90% RH Non condensing  |
| Storage TEMP/<br>Humidity           | -40~+75°C, 5%~95% RH Non condensing  |
| Dimension (L*W*H)                   | 166*150*75mm   |
| Weight                              | 2.1kg  |
| Installation                        | Desktop, 35mm DIN Rail   |
| <b>Certification &amp; Warranty</b> |  |
| Lightning protection                | IEC61000-4-3 (RS):10V/m (80-1000MHz)<br>FCC Part 15/CISPR22 (EN55022): Class A<br>IEC61000-6-2 (Common Industrial Standard)<br>IEC61000-4-9 (Pulsed magnet field): 1000A/m<br>IEC61000-4-10 (Damped oscillation): 30A/m 1MHz<br>IEC61000-4-12/18 (Shockwave): CM2.5kV, DM1kV<br>Protection level: IP40, Lightning protection: 6KV 8/20us<br>IEC61000-4-4(EFT): Power cable: ±4kV, data cable: ±2kV<br>IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s<br>IEC61000-4-2 (ESD): ±8kV contact discharge, ±15kV air discharge<br>IEC61000-4-6 (Radio frequency transmission): 10V(150kHz~80MHz)<br>IEC61000-4-8 (Power frequency magnetic field): 100A/m, 1000A/m, 1s-3s<br>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          |