



Gigabit Uplink 24-Port PoE Switch

An unmanaged 24-port Fast Ethernet PoE switch with dual Gigabit uplinks and a 240W PoE budget, built for plug-and-play surveillance and access-control deployments. Supports IEEE 802.3af/at/bt with up to 90W on Hi-PoE ports and 30W per standard PoE ports.

Model	SW6800-24FEP-2GE
Product Name	Gigabit Uplink 24-Port PoE Switch
Manufacturer	Qualitech Technology Pte. Ltd.
Total PoE Power	Max 240 W
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Product Overview

The SW6800-24FEP-2GE is an unmanaged Fast Ethernet PoE switch purpose-built for powering and networking IP cameras, access points, and other PoE-powered devices at scale. It combines 24 × 10/100M PoE ports with 2 × 10/100/1000M uplink ports, delivering wire-speed connectivity back to the network core without the need for any configuration.

With a total PoE power budget of up to 240 W and a selectable long-distance PoE mode, the switch is well suited to security and surveillance deployments where cameras are installed at extended cable runs from the switch.

Key Features

- **24 PoE Ports + 2 Gigabit Uplinks:** 24 × 10/100M RJ45 PoE ports for edge devices, plus 2 × 10/100/1000M RJ45 uplink ports for a fast, uncongested link back to the network core.
- **High PoE Power Budget:** Total PoE output of up to 240 W. Ports 1–2 support IEEE 802.3af/at/PoE++/bt up to 90 W each; ports 3–24 support IEEE 802.3af/at up to 30 W per port.
- **Selectable Operating Modes:** A front-panel function switch offers Standard shared mode, Port Isolation mode, and Extra-Remote mode for long-distance PoE power delivery — no configuration software required.
- **Built-In Surge Protection:** 3 kV (8/20μs) lightning/surge protection and an IP30-rated enclosure for reliable operation in demanding installation environments.
- **Plug & Play:** Fully unmanaged design — connect power and cabling and the switch is ready to use, with no setup or ongoing management required.

Technical Specifications

Ports & PoE

Fixed Ports	24 × 10/100M RJ45 ports; 2 × 10/100/1000M RJ45 uplink ports
PoE Ports	Ports 1–2: IEEE 802.3af/at/PoE++/bt, max 90 W per port. Ports 3–24: IEEE 802.3af/at, max 30 W per port
PoE Power Polarity	af/at: 12+ 36–. af/at/PoE++/bt: 12+ 45+ 36– 78–
Total PoE Power	Max 240 W
Function Switch	N: Standard shared mode. V: Port isolation mode. C: Extra-remote mode (long-distance PoE power supply)

Switching Performance

Switching Bandwidth	16 Gbps
Packet Forwarding Rate	6.55 Mpps
MAC Address Table	8K

Packet Buffer	4.1 MB
Transmission Distance	10BASE-T: Cat3/4/5 UTP (≤250 m). 100BASE-TX: Cat5 or later UTP (≤150 m). 1000BASE-TX: Cat6 or later UTP (≤150 m)

Indicators & Power

LED Indicators	PWR: power (green). 1-24: 10/100M link (green). 25-26: 10/100/1000M link (green). PoE: PoE status (orange)
Power Input	Built-in AC power supply, 100-240 VAC, 50/60 Hz, 3.8 A max, 300 W max

Mechanical & Environmental

Operating Environment	Operating temperature: -10°C to 55°C. Storage temperature: -40°C to 75°C. Operating humidity: 5%-90% RH, non-condensing. Storage humidity: 5%-95% RH, non-condensing
Dimensions	Product: 440 × 290 × 45 mm. Packaging: 515 × 375 × 95 mm
Weight	Net weight 3.3 kg / Gross weight 4.1 kg
Surge Protection	3 kV (8/20μs) lightning/surge protection; IP30
Mounting	Rack-mount (mounting ear accessories optional)

Certifications & Warranty

Certifications	CE Mark (commercial); CE/LVD EN60950; FCC Part 15 Class B; RoHS
Warranty	1 year for the complete unit (accessories not included)

Application Scenarios

- IP camera and video surveillance networks
 - Wireless access point (AP) deployment
 - Access control and intercom systems
- Retail and warehouse network infrastructure
 - Campus and building network edge distribution
 - Any PoE-powered device deployment requiring extended cable runs



Support & Partnership

Qualitech Technology provides technical guidance and engineering support services for partners.

Contact & Ordering Information

COMPANY	MODEL
Qualitech Technology Pte. Ltd.	SW6800-24FEP-2GE
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