

What are some PoE switches



AI Overview

PoE switches come in three main types: PoE (802.3af), PoE+ (802.3at), and PoE++ (802.3bt), each delivering increasing levels of power per port for different device needs.

Overview of PoE Switch Types

1. PoE (IEEE 802.3af / Type 1)

- Power per port: Up to 15.4W supplied, 12.95W usable by devices
- Voltage range: 44–57V for the switch, 37–57V for powered devices
- Typical applications: Basic VoIP phones, stationary IP cameras, sensors, and simple network devices
- Use case: Ideal for low-power devices where minimal electrical demand is required

2. PoE+ (IEEE 802.3at / Type 2)

- Power per port: Up to 30W supplied, 25.5W usable by devices
- Voltage range: 50–57V
- Typical applications: PTZ (pan-tilt-zoom) cameras, IP phones with advanced features, wireless access points, alarm systems
- Use case: Suitable for devices requiring higher power than standard PoE, supporting more complex network setups

3. PoE++ (IEEE 802.3bt / Type 3 and Type 4)

- Type 3: Up to 60W per port
- Type 4: Up to 100W per port
- Typical applications: High-power devices such as laptops, monitors, advanced security cameras, and multi-antenna wireless access points
- Use case: Designed for modern high-power PoE devices, enabling centralized pow...

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