Gigabit PoE Switch Supply



Overview

Gigabit PoE Switch, 2 Port Gigabit Ethernet Switch, Ethernet.

Key Takeaways

Gigabit PoE switches are widely available in various port configurations, supporting IEEE 802. 3af/at standards with power budgets suitable for SMBs and enterprise networks.

Overview of Gigabit Po

E Switches

Gigabit PoE (Power over Ethernet) switches provide 1Gbps network speeds on all ports while simultaneously delivering power to connected devices such as IP cameras, wireless access points, and VoIP phones. They simplify installation by eliminating the need for separate power cables, reduce infrastructure costs, and allow for flexible network expansion. These switches are available in unmanaged, smart, and Layer 3 managed models, offering features like scheduled power cycles, port settings, redundancy support, and remote power management.

Port Options and Power BudgetsSmall-scale switches: 2 to 8 ports, ideal for home or small office setups. For example, a 2-port Gigabit PoE switch can deliver up to 30W per port and supports IEEE 802. 3af/at standards.

An 8-port unmanaged switch can provide 30W per port with a total power budget of 110W, suitable for small enterprises or campus deployments. Medium to large-scale switches: 5 to 52 ports, suitable for SMBs and larger networks.

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The D-

Link DGS-1005P 5-port switch provides 30W per port with a total power budget of 60W, supporting plug-and-play installation and energy-efficient features. High-density models like the PLANET GSW-5240HP offer 48 Gigabit PoE+ ports with a combined power output of 370W, plus 4 SFP uplink ports, ideal for rack-mounted enterprise deployments.

Key Features

Standards compliance: IEEE 802. 3af (PoE) and 802. 3at (PoE+) for backward compatibility.

Energy efficiency: Automatic power adjustment and energy-saving designs reduce consumption. Reliability and safety: Built-in protection against overloading, short circuits, and surge protection ensures safe operation. Ease of installation: Many models are plug-and-play with auto-negotiation and MDI/MDI-X support, requiring minimal configuration.

Remote management: Some switches allow monitoring and controlling power usage remotely, enhancing network management.

Suppliers and Availability

Versitron: Offers 1Gb PoE switches ranging from 4 to 52 ports, with lifetime warranty and US-based manufacturing. Amazon: Provides smaller 2-port and 8-port Gigabit PoE switches suitable for home or small office expansion.

ONVCO

M: Supplies unmanaged 8-port PoE switches with high-density PoE support for IP cameras and APs.

D-

Link: Offers compact 5-port desktop PoE+ switches for small businesses and home offices.

PLANE

T Technology: Provides high-density 48-port PoE+ switches with SFP uplinks for SMBs and enterprise networks.

Conclusion

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E switches are readily available across a wide range of port counts and power budgets, from small 2-port units to high-density 48-port enterprise models. They support standard PoE protocols, offer energy-efficient and reliable operation, and are supplied by multiple vendors including Versitron, D-Link, PLANET, and Amazon, making them suitable for both small-scale and large-scale network deployments.

Article Content

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