

Parameters of a 24-Port Access Switch

Article Overview

A 24-port access switch typically features 24 Ethernet ports, supports speeds from 10/100 Mbps to 1 Gbps, offers VLAN, QoS, PoE options, link aggregation, and management capabilities.

Key Technical Parameters

Ports and Speed: A standard 24-port switch provides 24 Ethernet ports for connecting devices such as computers, servers, printers, and IP cameras. Many models support 10/100/1000 Mbps (Gigabit) speeds, with some offering additional SFP ports for fiber uplinks . **Power over Ethernet (PoE):** Some switches, like the Cisco SRW224P and UniFi 24 PoE, support PoE or PoE+, allowing devices such as IP cameras and VoIP phones to receive power through the Ethernet cable . **Switching Capacity and Forwarding Rate:** 24-port switches are designed to handle high traffic loads with sufficient switching capacity to manage multiple simultaneous connections and large data volumes, ensuring minimal latency and congestion . **VLAN and Network Segmentation:** Most managed 24-port switches support VLANs (802.1Q), allowing network segmentation for security and traffic management. They may also support port-based VLANs, trunking, and up to 4094 VLAN IDs . **Quality of Service (QoS):** Advanced switches provide QoS features, including priority queues, weighted round-robin (WRR), and strict priority scheduling, to ensure real-time traffic like voice and video is prioritized . **Link Aggregation:** Many models support link aggregation (LACP or static), enabling multiple physical ports to combine into a single logical link for bandwidth expansion and redundancy . **Security Features:** Managed switches often include 802.1X authentication, MAC-based filtering, port isolation, and storm control to enhance network security . **Management Options:** Depending on the model, switches can be unmanaged, smart-managed, or fully managed, with configuration via web GUI, SNMP, or cloud-based platforms . **Application Scenarios:** 24-port switches are widely used in small to medium-sized businesses, schools, hospitals, and data centers to build LANs, support IP cameras, VoIP, and high-speed data transfer, and allow future network expansion . In summary, a 24-port access switch provides ample connectivity, flexible management, and advanced features to support modern LAN environments, with variations in PoE support, speed, and management depending on the specific model.

Product Overview The Cisco® SGE2000P 24-Port Gigabit Switch (Figure 1) helps maximize system availability, with fully redundant

JetStream 28-Port Gigabit L2+ Managed Switch with 24-Port PoE+. As a switch that seamlessly integrates

The FortiSwitch(TM) Access Family is tailored to meet the unique demands of enterprise branch offices and small businesses. An



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RG-CS86-24MG4VS-UP 24-Port Ruijie Multi-GE Switch with Cloud Management, Full 1/2.5/5GE Access with PoE++

24-Port Gigabit Unmanaged PoE Switch DS-3E0526P-E/M switch is a layer 2 PoE network switch, providing 24 × Gigabit PoE ports

Explore the role of access switches in your LAN setup. Understand their key components, functions in the access layer,

Layer 2 switch with (24) GbE RJ45 ports and (2) SFP ports.

Discover the full potential of a 24-Port Gigabit Ethernet Switch. Explore ascentoptics" guide

HSP-IO-24GE4XS-C1PA is a 24-Port PoE+ L2 Managed Switch with 128 Gbps switching capacity from IO by HFCL. Ideal for

Confused about SFP, QSFP, or combo ports? This guide explains Ethernet switch port types including RJ45,

Layer 2, PoE switch with (24) GbE, PoE+ and 24V passive PoE RJ45 ports and (2) 1G SFP ports.

Table 1 contains the specifications, package contents, and minimum requirements for the Cisco SRW224P 24-Port 10/100 + 2-Port

PoE+ Flexibility The UniFi Switch models are available with 8, 16, 24, or 48 PoE Gigabit Ethernet ports of auto-sensing IEEE

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