

Huawei Industrial-Grade Gigabit Switch



Overview

CloudEngine S5735I-S-V2 Series Switches | Huawei Huawei CloudEngine S5735I-S-V2 series industrial switches (DIN rail-mounted) are next-generation CloudEngi.

Key Takeaways

Huawei industrial-grade gigabit switches, such as the CloudEngine S5735I series, are designed for high-performance, reliable operation in harsh industrial environments with extended temperature ranges and advanced Layer 2/Layer 3 capabilities. Key Features



Industrial-Grade Reliability: Huawei switches like the CloudEngine S5735I-S-V2 and S5735-L8P4X-IA1 are built to withstand extreme conditions, with operating temperature ranges from -40°C to +75°C, IP40 protection, and resistance to dust, vibration, and electromagnetic interference. They often feature fanless designs for silent, maintenance-free operation.

Port Configurations: These switches provide all-gigabit access with GE/10GE uplinks. For example, the S5735I-S-V2 series offers GE downlink ports and GE/10GE SFP+ uplinks, while the S210I-8P4SX includes 8x 10/100/1000BASE-T PoE+ ports, 2x GE SFP, and 2x 10GE SFP+ uplinks. High port density and flexible uplink options make them suitable for edge deployments and high-bandwidth applications.

Layer 2/Layer 3 Capabilities: Huawei industrial switches support advanced Layer 2/Layer 3 protocols, including OSPF, IS-IS, BGP, VRRP, PIM SM/DM/SSM, and IGMP snooping. These features enable efficient routing, multicast traffic handling, and support for voice, video, and data applications in industrial networks.

Time-Sensitive Networking (TSN) and Precision Timing: Many models, such as the S5735I-H-V2, support IEEE 1588v2 high-precision time synchronization and TSN, ensuring deterministic latency for industrial automation and real-time applications.

PoE and Power Options: Certain models, like the S210I-8P4SX, provide PoE+ support to power connected devices such as IP cameras, sensors, and access points. They also support redundant power inputs and a wide DC voltage range (48-57V), ensuring continuous operation in critical environments.

Security and Management: Huawei switches implement MAC address authentication, 802.1X authentication, and dynamic policy delivery for VLAN, QoS, and ACLs. They can be managed via local web interfaces or cloud-based platforms like SNC/eKit App, providing flexible network management options.

Deployment Scenarios

These industrial-grade switches are ideal for smart manufacturing, smart mining, smart transportation, safe city projects, and electric power networks. Their robust design, extended temperature tolerance, and surge protection make them suitable for outdoor cabinets, industrial enclosures, and edge network deployments.

Summary

Huawei industrial gigabit switches combine high reliability, flexible port configurations, advanced Layer 2/3 features, PoE support, and industrial-grade durability, making them well-suited for demanding industrial and enterprise networking environments. Models like the CloudEngine S5735I-S-V2, S5735-L8P4X-IA1, and S210I-8P4SX provide scalable, high-performance solutions for modern industrial networks.

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