

Article Overview

Huawei's industrial-grade gigabit switches, such as the CloudEngine S5735I and S5731I-L series, offer ruggedized, high-performance networking solutions with all-gigabit access, GE/10GE uplinks, and extended operating temperature ranges for harsh industrial environments.

Key Features

Rugged Industrial Design: Huawei industrial switches are designed to operate in extreme conditions, with an industrial-grade temperature range of -40°C to +75°C and IP40 protection for dust and water resistance, making them suitable for outdoor cabinets and harsh environments . **Flexible Connectivity:** These switches provide all-gigabit access with multiple uplink options, including GE and 10GE ports, supporting high-speed data transmission for industrial applications . Rack-mounted and DIN rail-mounted models are available to fit different deployment scenarios . **Advanced Networking Capabilities:** Huawei switches support IEEE 1588v2 high-precision time synchronization and time-sensitive networking (TSN), ensuring deterministic latency and reliable communication for industrial automation and smart factory operations . **Surge Protection and Reliability:** Professional outdoor surge protection and industrial-grade reliability ensure continuous operation in critical applications, including smart manufacturing, smart mining, smart transportation, safe city infrastructure, and electric power systems . **AI and 5G Integration:** The CloudEngine S5735I series incorporates AI-powered network management and is 5G-ready, enabling autonomous fault detection, predictive maintenance, and seamless integration with modern industrial IoT networks .

Typical Applications

- o **Smart Manufacturing:** High-speed, low-latency connectivity for automated production lines and industrial robots.
- o **Smart Mining and Transportation:** Reliable networking in remote or harsh outdoor environments.
- o **Safe City and Electric Power:** Critical infrastructure monitoring, control, and emergency response systems.
- o **Industrial Automation:** Supports IT/OT convergence for real-time data collection and control.

Popular Models

- o **CloudEngine S5735I-S-V2:** DIN rail-mounted, all-gigabit access, GE/10GE uplinks, extended temperature range .
- o **CloudEngine S5731I-L:** DIN rail-mounted, flexible gigabit access, suitable for harsh outdoor cabinets .
- o **CloudEngine S5735I-H-V2:** Rack-mounted, 24 x 10/100/1000BASE-T downlink ports, 8 x GE SFP ports, 4 x 10GE SFP+ uplinks, 2 x 12GE stack ports, DI/DO ports, IEEE 1588v2 and TSN support .

Market Position

Huawei Industrial Gigabit Switches

Huawei dominates the industrial networking segment with AI-integrated, 5G-enabled solutions, offering high reliability, low latency, and scalability for modern industrial facilities. The CloudEngine S5735I series is particularly recommended for smart factory upgrades due to its balance of rugged design and advanced networking capabilities. These switches are ideal for enterprises seeking robust, high-performance, and future-ready industrial networking solutions capable of supporting AI, IoT, and 5G-enabled operations.

Huawei S Series Switches fully accommodate metro core, aggregation, edge aggregation, and access networking requirements, and

S5330-HI Series Next-Generation Gigabit Ethernet Switches The S5330-HI series switches (S5330-HI) are the next-generation agile

Ethernet Switches After more than 20 years of unremitting efforts and stable development, Huawei provides extensive experience in

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Huawei campus switches offer high-performance, secure, and reliable switching for enterprises, governments, finance and

Huawei devices have implemented Ethernet link management through SEP. SEP features simplicity, high reliability, high switchover

Directory of Huawei enterprise IT infrastructure products, solutions, and services.

Huawei CloudEngine S5735I-S-V2 series extended-temperature switches (S5735I-S-V2 for short) are next-generation standard

Explore Huawei PoE, PoE+, PoE++ and 90 W Hi-PoE switches--multigig speed, iStack scalability, AI

S6320-SI Series Multi-Gigabit Switches Huawei S6320-SI series switches are Huawei-developed next-generation multigigabit 10GE

S5320 Gigabit Ethernet Switches The S5320 series gigabit Ethernet switches are energy-saving switches developed by Huawei to

Huawei CloudEngine S5735I-H-V2 series industrial switches (DIN rail-mounted) are next-generation

Huawei Industrial Gigabit Switches

industrial switches that provide

CloudEngine S5731-S series multi-GE switches are gigabit access switches that offer multi-GE downlink

Snapshot: A specialized industrial-grade Ethernet switch series designed for harsh environments (e.g., factories,

S5330-HI Series Next-Generation Gigabit Ethernet Switches Huawei S5330-HI gigabit ethernet switches (hereinafter referred to as

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