

Huawei Ethernet Industrial Switches



Overview

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

Key Takeaways

Huawei industrial Ethernet switches deliver high-performance, ruggedized networking solutions for harsh industrial environments, supporting mission-critical applications across manufacturing, energy, transportation, and smart city infrastructure. Overview

Huawei's industrial-grade Ethernet switches are engineered to operate reliably in extreme conditions, including high and low temperatures (-40°C to $+85^{\circ}\text{C}$), dust, vibration, and electromagnetic interference, making them suitable for industrial automation, smart factories, and energy systems. These switches combine high port density, Layer 3 routing capabilities, and advanced management features to ensure seamless connectivity and network resilience.

Key Models and Features

- S5735-L8P4X-IA1: Part of the S5735 series, this switch is fanless, compact, and optimized for edge deployments. It supports extended temperature ranges, robust protection against environmental stressors, and advanced routing features, making it ideal for transportation, energy, manufacturing, and smart city networks.
- CloudEngine S5731I-L: A DIN rail-mounted industrial switch designed for control cabinets and confined spaces. It offers 8/16 GE downlink ports, 2 GE and 2 10GE uplink optical ports, and digital input/output ports, ensuring flexible connectivity in industrial settings.

- CloudEngine S5735I Series: AI-integrated and 5G-enabled, this series supports smart factory upgrades, autonomous fault detection, and IT/OT convergence, providing high reliability, low latency, and scalability for modern industrial networks .
- Applications

Huawei industrial switches are widely deployed in:

- Smart manufacturing: Connecting PLCs, robotics, sensors, and SCADA systems for real-time monitoring and predictive maintenance .
- Energy and utilities: Linking protective relays, meters, and RTUs for grid stability and rapid response to outages .
- Transportation: Supporting intelligent traffic systems, rail networks, and urban infrastructure .
- Renewable energy: Ensuring consistent data flow in wind and solar farms for efficient energy dispatch .

Advantages

- Ruggedized design: Withstands extreme temperatures, vibrations, and dust.
- High reliability: Supports continuous operation in mission-critical environments.
- Advanced management: Offers full control over network traffic, PoE capabilities, and remote monitoring.
- Scalability: Modular and hot-swappable designs allow network expansion without downtime .
- Compliance: Meets industry standards such as IEC 62443 for cybersecurity and IEEE 1613 for electric power systems .

Conclusion

Huawei industrial Ethernet switches provide robust, secure, and high-performance networking solutions for demanding industrial environments. Their combination of durability, advanced features, and AI/5G integration makes them ideal for enterprises seeking reliable connectivity, operational efficiency, and future-proof industrial digitalization .

Article Content

CloudEngine S5735I-S-V2 Series Switches | Huawei

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

Ethernet Switches

With multiple industry-leading intellectual properties and patents, Huawei provides more than a hundred

Switches

Featuring elastic scalability, Huawei's Ethernet switches use a highly efficient converged service platform, convenient Operations and

Data Center Switches

Data Center Switches CloudEngine Data Center Switches — Ethernet switches widely used in diverse applications and in different

CloudEngine S5735I-H-V2 Series Industrial Switches

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Huawei Ethernet Switches

Router-switch offers huawei CloudEngine, Campus and smb ethernet switches, provide high-availability, high-performance

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Huawei S1700 series enterprise switches provide energy-saving Fast Ethernet access for small businesses and branch locations.

Network Switches | Huawei Enterprise

Huawei Ethernet Switches Turbocharge your enterprise network with high-performance, high-availability for resilient services and

CloudEngine S5735I-H-V2 Series Industrial Switches

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

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CloudEngine S5735I-H-V2 Series Industrial Switches (Rack-Mounted)

Huawei CloudEngine S5735I-H-V2 series industrial switches (rack-mounted) are next-generation industrial switches that provide

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CloudEngine S16700 series switches are flagship core switches with record-high performance designed for high-quality 10 Gbps

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Huawei Ethernet Industrial Switch S3700: Silent Guardian? Can

Most commercial switches crumble under industrial stress. The Huawei S3700 is engineered from the ground up for abuse. Its

Huawei Industrial Switch 2026: AI & 5G-Enabled Networks

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

Huawei Industrial Ethernet Switch: Tough Enough? Will Your

That's the brutal reality the Huawei Industrial Ethernet Switch is built for. It promises resilience where failure isn't an option. But the

S200-8P4S

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide

(Video) CloudEngine S5735I-S-V2 Series Industrial Switches Product ...

As such, they can be widely used in access scenarios such as Safe City and Ethernet to the x (ETTx).

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