HUAWEI eKit

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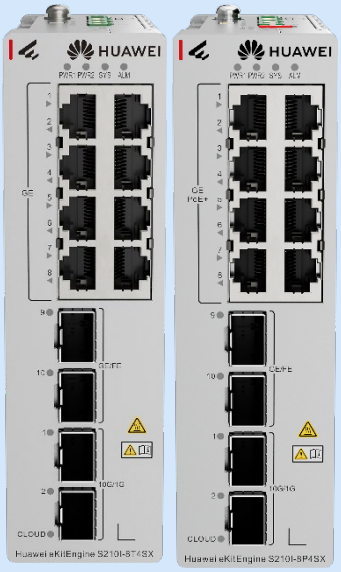
HUAWEI eKitEngine S210I Series Extended-Temperature Switches Datasheet



Layer 2 Extended-Temperature Switches

Make SME Network Easier and Smarter

HUAWEI

Product Overview

Huawei eKitEngine S210I series extended-temperature switches (S210I for short) are Layer 2 switches that are independently developed and controllable. The switches provide flexible GE access ports and GE/10GE uplink ports, and are suitable for harsh outdoor cabinet environments. Compared with traditional unmanaged switches, the S210I supports local web-based management and cloud-based management, enabling plug-and-play functionality to meet the diverse network management needs across industries.

Product Features and Highlights

Industrial-Grade Quality

- Natural heat dissipation, long-term operating temperature range of –40°C to +75°C
- IP40 protection
- Isolated power supply protection, with a wide voltage input range of 9.6 V to 60 V
- Multiple protection mechanisms for the power supply, including reverse connection prevention, overtemperature protection, and overvoltage protection

Highly Reliable and Flexible Networking

- STP/RSTP and ERPS for network-level reliability
- Link aggregation for link-level reliability

Simplified Architecture and Easy Maintenance

- Easy O&M based on local web: Users can manage devices in a lightweight and visualized manner on the web GUI.
- The HUAWEI eKit App or SNC allows users to configure, monitor, and inspect switches on the cloud, reducing required on-site deployment and O&M workforce and network OPEX.

PoE Power Supply

- Perpetual PoE: When a switch reboots (for example, during software upgrade), the power supply to connected PDs is not interrupted.

Product Specifications

Item	eKitEngine S210I-8T4SX	eKitEngine S210I-8P4SX
Switching capacity	60 Gbps	60 Gbps
Packet forwarding rate	44.6 Mpps	44.6 Mpps
Fixed port	8 x 10/100/1000BASE-T ports, 2 x GE SFP ports, 2 x 10GE SFP+ ports, 1 x DI/DO port	8 x 10/100/1000BASE-T ports (PoE+), 2 x GE SFP ports, 2 x 10GE SFP+ ports, 1 x DI/DO port
Chassis dimensions (H x W x D)	150 mm x 44 mm x 133 mm	150 mm x 44 mm x 133 mm

Item	eKitEngine S210I-8T4SX	eKitEngine S210I-8P4SX
Chassis height	3.65 U	3.65 U
Installation mode	DIN rail	DIN rail
Weight without packaging	0.975 kg	0.986 kg
Power supply mode	60 W AC power adapter or external DC power supply, supporting 1+1 hot backup	240 W AC PoE power adapter or external DC power supply, supporting 1+1 hot backup
Rated input voltage	• AC input: 100 V AC to 240 V AC; 50/60 Hz • DC input: 100 V DC to 150 V DC	• AC input: 100 V AC to 240 V AC; 50/60 Hz • DC input: 100 V DC to 150 V DC
Rated output voltage	12 V DC	56 V DC
Maximum power consumption	• 16.2 W @ 60 V • 13.2 W @ 12 V	• Without PoE: 16.24 W • Full PoE load: 257.6 W (PoE: 240 W)
Noise	Noise-free (no fans)	Noise-free (no fans)
Long-term operating temperature	0 m to 1800 m altitude, industrial optical modules: • Sealed cabinet: –40°C to +65°C • Vented cabinet (≥ 40 LFM): –40°C to +70°C • Blower-equipped cabinet (≥ 200 LFM): –40°C to +75°C	0 m to 1800 m altitude, industrial optical modules: • Sealed cabinet: –40°C to +60°C • Vented cabinet (≥ 80 LFM): –40°C to +70°C • Blower-equipped cabinet (≥ 200 LFM): –40°C to +75°C
Storage temperature	–40°C to +85°C	–40°C to +85°C
Relative humidity	5% RH to 95% RH, non-condensing	5% RH to 95% RH, non-condensing
Service port surge protection	Common mode: ±6 kV	Common mode: ±6 kV
Power port surge protection	DC power: • Common mode: ± 2 kV • Differential mode: ± 1 kV	DC power: • Common mode: ± 2 kV • Differential mode: ± 1 kV
Heat dissipation mode	Fanless, natural heat dissipation	Fanless, natural heat dissipation

Power Adapter Specifications

Item	60 W AC Power Adapter	240 W AC PoE Power Adapter
Appearance		
Rated input voltage	100 V AC to 240 V AC; 50/60 Hz 100 V DC to 250 V DC	100 V AC to 240 V AC; 50/60 Hz 100 V DC to 250 V DC
Rated output voltage	12 V DC	56 V DC
Power	60 W	PoE power: 210 W Total power: 240 W
Weight	0.90 kg	1.47 kg
Dimensions (H x W x D)	150 mm x 40 mm x 133 mm	150 mm x 60 mm x 133 mm
Operating temperature	–40°C to +70°C	–40°C to +70°C
Storage temperature	–40°C to +85°C	–40°C to +85°C
Relative humidity	5%–95% RH (non-condensing)	5%–95% RH (non-condensing)
Heat dissipation mode	Natural heat dissipation	Natural heat dissipation

Service Feature

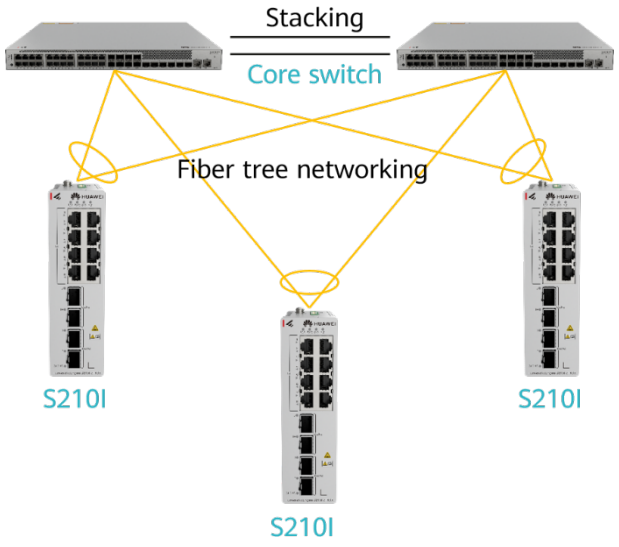
Feature	Feature Description
Interface basics	VLANs
	Jumbo frames
	Port Up/Down detection
	Port auto-negotiation
	Link aggregation
Security features	Secure boot
	Storm suppression
	Port isolation
Ethernet basics	32 VLANs

Feature	Feature Description
	Access/Trunk access mode
	Port-based VLAN assignment
	Up to 8K MAC address entries
	Automatic MAC address learning
	Automatic MAC address aging
	Static MAC address entries
QoS	Traffic rate limiting on ingress ports
	Port queue scheduling
	Automatic high-priority forwarding for mainstream industrial protocols such as PROFINET and GOOSE
User access	DHCP client
Configuration and maintenance	Web-based management
	Restoration of factory settings
	Cloud-based and App-based management
Reliability	STP (IEEE 802.1D), RSTP (IEEE 802.1w)
	ERPS (G.8032)

Networking and Applications

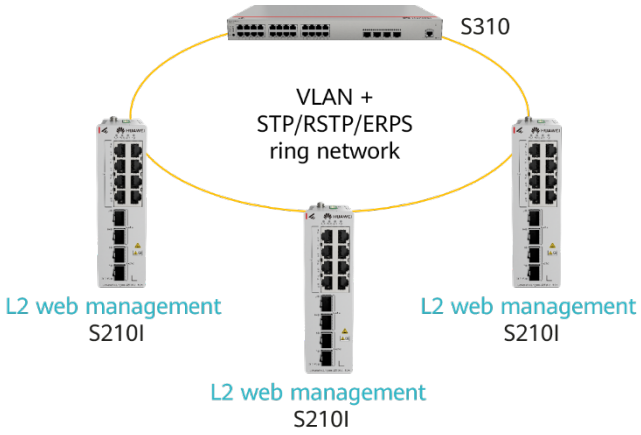
Simplified Architecture

eKitEngine S530/S550/S620 series switches are deployed as campus core switches, with S210I used for port expansion. They provide wired or wireless access for campus terminals and can be widely used in scenarios such as enterprise workplaces, schools, hospitals, and hotels.



High-Reliability Ring Network

eKitEngine S310 series switches are deployed as campus aggregation switches, with S210I as access switches to form a reliable STP/RSTP/ERPS ring network. They provide wired or wireless access for campus terminals and can be widely used in scenarios such as enterprise workplaces, schools, hospitals, and hotels.



Ordering Information

The following table lists the ordering information of eKitEngine S210I series switches and accessories:

Product Model	Product Description
eKitEngine S210I-8T4SX	8 x GE electrical, 2 x GE optical, 2 x 10GE optical, 1 x DI/1 x DO, DIN rail mounting, dual redundant 9.6–60 V DC power supplies, fanless
eKitEngine S210I-8P4SX	8 x GE electrical, 2 x GE optical, 2 x 10GE optical, 8 x PoE+, 1 x DI/1 x DO, DIN rail mounting, dual redundant 9.6–60 V DC power supplies, fanless
PAC60S12-AN (optional)	60 W AC power adapter, needing to be purchased separately
PAC240S56-CN (optional)	240 W AC PoE power adapter, needing to be purchased separately
DIN rail mounting kit (optional)	DIN rail mounting brackets for cabinet or chassis, needing to be purchased separately

More Information

For more information about Huawei eKitEngine switches, visit https://ekit.huawei.com/ or contact Huawei's local sales office. Alternatively, you can contact us through one of the following methods:

- Global service hotline: http://e.huawei.com/en/service-hotline
- Enterprise technical support website: http://support.huawei.com/enterprise
- Sending an email to the customer service mailbox: support_e@huawei.com

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