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[Huawei eKit SME Network Training]

New Products 2024 July

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List of New eKit SME Network Products in May & June 2024

Category	Product Model	Product Positioning	Keyword	GTM Time
WLAN	AC650-512AP	WAC with a larger AP management capacity	Managing 512 APs	End of June/July
Switch	S220-8T4S (non PoE) S220-8P4S (PoE)	L2, 8-port GE switch	8-port, L2	End of May
	S310-24PN4X	L2+, 24-port 2.5GE switch	2.5GE port	End of May
	S310-24ST4X	L2+, hybrid optical-electrical GE core switch	optical ports	End of May
	S530-24T4XE	L3, 24-port GE core switch	L3, fully-managed core switch, dedicated stack port	End of June
	S530-24ST4XE	L3, 24-port GE hybrid optical-electrical core switch		
	S530-48S4XE	L3, 48-port GE all-optical core switch		
AR router	AR303	Cost-effective converged gateway (routing + switching + security; supporting 200 connected devices)	VPN, online behavior management, URL filtering	End of May

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AC650-512AP: Managing More APs Locally

AC650-512AP

School campus

+

SME

+

Hotel

...

512 APs managed, 4096 users, 12 Gbps forwarding performance

Parameter	Specifications
Port	2 x 10GE SFP+ ports, 10 x GE RJ45 ports
Forwarding performance	12 Gbps
Number of APs managed	512
Max. number of access users	4096
Protection mode	1+1 HSB in active/standby and load balancing modes
Fan	No fan
Dimensions (W x D x H)	250 mm x 210 mm x 43.6 mm

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HUAWEI eKit SME Network Product Portfolio

Network egress

S380

AR300

AR700

Excellent performance

Network core/aggregation

S310

S530

Enhanced stacking for better network stability

Network access

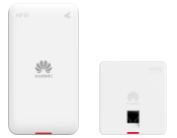
S110

S220

- Perpetual PoE and fast PoE
- Identifies 100+ non-standard terminals in seconds

Wi-Fi coverage

Ceiling-mounted AP
AP661/362/361



Wall plate AP
AP263/160

Outdoor AP
AP761

Wi-Fi 7 AP

Ceiling-mounted AP
AP371

Smart antennas for 20% wider coverage range

Comprehensive products

A wide array of products and innovative technologies, improving network experience

Easy to use and maintain

Deployment and O&M of all devices on the network via HUAWEI eKit App, facilitating quick start

High quality

Passed rigorous tests (66 sub-items in 8 categories), with a failure rate of only 1/3 that of the industry average

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S310-24PN4X: L2+, Fully-Managed, 24-Port 2.5GE PoE Switch, Born for High-Bandwidth Wireless Upgrade

Overview

L2+, fully-managed, 24-port 2.5GE switch

- GTM on May 31, 2024
- Global GTM

S310-24PN4X

24 x 2.5GE RJ45 ports

4 x 10GE SFP+ ports

Applicable scenarios

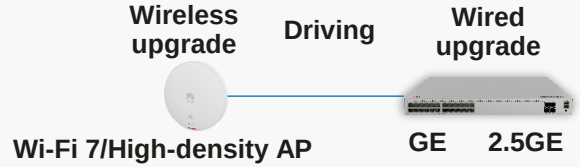
- Access switch for high-bandwidth wireless coverage scenarios, such as scenarios where Wi-Fi 7 APs or high-density APs are used

Specifications

Port	24 x 2.5GE RJ45 ports, 4 x 10GE SFP+ ports
Packet forwarding rate	144 Mpps
Switching capacity	200 Gbps
Power supply	Built-in AC power module
PoE	400 W, PoE+
Long-term operating temperature	-5°C to +50°C
Heat dissipation mode	Air cooling, intelligent fan speed adjustment
Management mode	Local web, SNC/eKit app, CLI, SNMP
Routing	Static routing

Highlights

1 High-density 2.5GE PoE ports, meeting the growing demands for wireless bandwidth



High-density 2.5GE ports are required to meet the strong demand for wireless bandwidth upgrade.

2 Fully-managed, catering to diverse management and O&M needs

- Mobile app/Cloud-based web: remote O&M scenario
- Local web: scenario incapable of cloud-based remote O&M
- CLI: senior engineer-based complex function configuration scenario
- SNMP: professional NMS-based large network O&M scenario

3 High reliability, ensuring stable networks

	S310 VS Industry
Operating temperature	-5℃ to +50℃ VS 0/-5℃ to +40℃
Stack networking	Supported (via CLI) VS Not supported
Loop protection and recovery	50 ms (MSTP/ERPS) VS Seconds (STP/RSTP)

Ethernet ring protection switching)

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Production Comparison of S310-24PN4X 2.5GE Switch

Specifications	S310-24PN4X	USW-Enterprise-24-POE	USW-Pro Max 24 PoE
Port	24 x 2.5GE RJ45 ports, 4 x 10GE SFP+ ports	12 x GE RJ45 ports 12 x 2.5GE RJ45 ports 2 x 10GE SFP+ ports	16 x GE RJ45 ports 8 x 1/2.5GE RJ45 ports 2 x 10GE SFP+ ports
Packet forwarding rate	144 Mpps	92.25 Mpps	Not claimed
Switching capacity	200 Gbps	124 Gbps	112 Gbps
Power supply	Built-in AC power module	AC/DC, internal DC power backup ready	AC/DC, internal, 50 W DC power backup ready
PoE	400 W, PoE+	400 W, PoE+	400 W, PoE+ (8) PoE/PoE+ (16) 60 W PoE++
Long-term operating temperature	-5°C to +50°C	-5°C to +40°C	-5°C to +40°C
Heat dissipation mode	Air cooling, intelligent fan speed adjustment	Not claimed	Not claimed
Management mode	Local web, SNC/eKit app, CLI, SNMP	Local web, cloud management	Local web, cloud management
Reliability	iStack (via CLI)	Not supported	Not supported
MSTP/ERPS	Supported (via CLI)	Not supported	Not supported
IPv6	Supported	Not supported	Not supported
IPv6 Layer 2 multicast	Supported	Not supported	Not supported

Advantages:

- More 2.5GE and 10GE ports, higher packet forwarding rate, and larger switching capacity.
- Better in management modes, IPv6, stacking (via CLI), and MSTP/ERPS (via CLI)

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S310-24ST4X: L2+, Hybrid Optical-Electrical GE Core Switch, Best Suited for Flexible Networking and Reduced Investment

Overview

L2+, hybrid optical-electrical GE core switch

- GTM on May 31, 2024
- Global GTM

24 x GE SFP ports | 8 x combo ports | 4 x 10GE SFP+ ports

Applicable scenarios

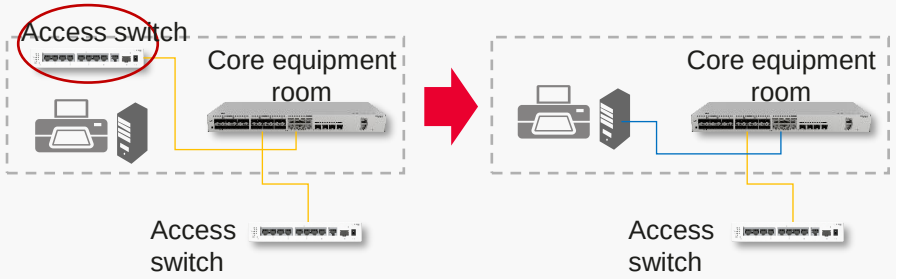
- Core switch for SME workplaces, primary & secondary education, community hospitals, etc.

Specifications

Port	• 24 x GE SFP ports (8 of which are combo ports) • 4 x 10GE SFP+ ports
Packet forwarding rate	96 Mpps
Switching capacity	128 Gbps
Power supply	Built-in AC power module
Maximum power consumption	41.7 W
Long-term operating temperature	-5°C to +50°C
Heat dissipation mode	Air cooling, intelligent fan speed adjustment
Management mode	Local web, SNC/eKit app, CLI, SNMP
Routing	Static routing

Highlights

1 Hybrid optical-electrical ports, one less access switch required



2 Fully-managed, catering to diverse management and O&M needs

- Mobile app/Cloud-based web: remote O&M scenario
- Local web: scenario incapable of cloud-based remote O&M
- CLI: senior engineer-based complex function configuration scenario
- SNMP: professional NMS-based large network O&M scenario

3 High reliability, ensuring stable networks

	S310 VS	Industry
Operating temperature	-5℃ to +50℃	0/-5℃ to +40℃
Stack networking	Supported (via CLI)	Not supported
Loop protection and recovery	50 ms (MSTP/ERPS)	Seconds (STP/RSTP)

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Production Comparison of S310-24ST4X Switch

Specifications	S310-24ST4X	RG-NBS5200-24SFP/8GT4XS
Port	24 x GE SFP ports (8 of which are combo ports), 4 x 10GE SFP+ ports	16 x GE SFP ports, 8 x GE combo ports, 4 x 10GE SFP+ ports
Packet forwarding rate	96 Mpps	96 Mbps
Switching capacity	128 Gbps	128 Gbps
Power supply	Built-in AC power module	Built-in AC power module
Long-term operating temperature	-5°C to +50°C	0°C to 50°C
Heat dissipation mode	Air cooling, intelligent fan speed adjustment	Not claimed
Management mode	Local web, SNC/eKit app, CLI, SNMP	Local web, cloud management
Reliability	iStack (via CLI)	Not supported
MSTP/ERPS	Supported (via CLI)	Not supported
IPv6	Supported	Weak support
IPv6 Layer 2 multicast	Supported	Not supported

- S310-24ST4X is an **all-optical L2+ switch,** while UB and Aruba do not have similar switches.

S220-8T4S/8P4S: L2, 8-Port GE Switch with Rich Service Features & Management Modes

Overview

L2, 8-port GE switch

- GTM on May 31, 2024
- Global GTM

S220-8P4S

8 x GE RJ45 ports

4 x GE SFP ports

S220-8T4S

8 x GE RJ45 ports

4 x GE SFP ports

Applicable scenarios

- Access switch (used to connect downstream APs and cameras) for small office, commercial stores, community hospitals, etc.

Specifications

Port	8 x GE RJ45 ports, 4 x GE SFP ports
Packet forwarding rate	18 Mpps
Switching capacity	24 Gbps
Power supply	Built-in AC power module
Maximum power consumption	21.52 W
Long-term operating temperature	-5°C to +50°C
Heat dissipation mode	Air cooling, intelligent fan speed adjustment
Management mode	Local web, SNC/eKit app, CLI, SNMP

Highlights

1 Abundant service features

- Loop protection: STP/RSTP/MSTP/ERPS
- Authentication: (port-based) 802.1X and MAC address authentications; VLAN/QoS/ACL
- Prevention of unauthorized access: DHCP snooping
- Defense against DoS attack, DHCP spoofing, IP/MAC spoofing, etc.

2 Fully-managed, catering to diverse management and O&M needs

- Mobile app/Cloud-based web: remote O&M scenario
- Local web: scenario incapable of cloud-based remote O&M
- CLI: senior engineer-based complex function configuration scenario
- SNMP: professional NMS-based large network O&M scenario

3 Fast PoE + perpetual PoE, improving service reliability

- Fast PoE: PoE power supply to PDs within 10 seconds after switch power-on (vs. 1–3 min in the industry)
- Perpetual PoE: uninterrupted PoE even upon switch reboot (such as software upgrade)

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Production Comparison of S220-8T4S/8P4S

Specifications	S220-8P4S	UB USW-Ultra+210W adapter	UB US-8-150W (130 W)	Aruba 1830 8G 4p Class4 PoE 65W	S220-8T4S	Aruba 1830 8G
Port	8 x GE RJ45 ports, 4 x GE SFP ports	8 x GE RJ45 ports	8 x GE PoE+ ports, 2 x GE SFP ports	8 x GE RJ45 ports (four PoE+ ports)	8 x GE RJ45 ports, 4 x GE SFP ports	8 x GE RJ45 ports
Packet forwarding rate	18 Mpps	Not claimed	14.88 Mpps	11.90 Mpps	18 Mpps	11.90 Mpps
Switching capacity	24 Gbps	16 Gbps	20 Gbps	16 Gbps	24 Gbps	16 Gbps
Power supply	Built-in AC power module	External, 54 V, 3.9 A power adapter (included) PoE++	AC/DC, internal, 150 W	External power adapter (included)	Built-in AC power module	Internal AC power supply
PoE	125 W, PoE+	202 W 7 ports with PoE/PoE+ 1 GE port with optional PoE++ input*	130 W	65 W Class 4 PoE	-	13 W max Class 3 PD
Long-term operating temperature	-5°C to +50°C	PoE++ input: -30°C to +60°C 210 W AC adapter input: -20°C to +60°C	-5° C to 45° C	0°C to 40°C	-5°C to +50°C	0°C to 40°C
Heat dissipation mode	Air cooling, intelligent fan speed adjustment	Not claimed	Fanless	Fanless	Air cooling, intelligent fan speed adjustment	Fanless
Management mode	Local web, SNC/eKit app, CLI, SNMP	Ethernet In-Band	Et hernet In-Band	Aruba Instant On Cloud; Web browser; SNMP Manager	Local web, SNC/eKit app, CLI, SNMP	Aruba Instant On Cloud; Web browser; SNMP Manager
MSTP/ERPS	Supported (via CLI)	Not supported	Not supported	Not supported	Supported (via CLI)	Not supported

Advantages:

- More ports and higher forwarding performance
- Better in management modes and MSTP/ERPS (via CLI)

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AR303: A Converged Gateway (Supporting 200 Connected Devices), All-in-One & Cost-Effective

Overview

A converged gateway
- GTM on May 31, 2024
- Global GTM

AR303

4 x GE RJ45 ports

1 x GE combo port

Applicable scenarios

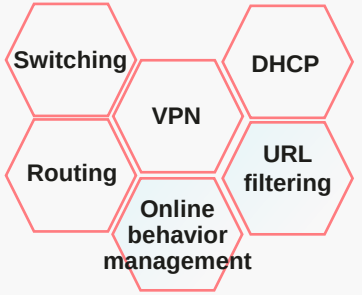
- Small & micro space scenarios, such as commercial stores, small and micro offices, and commercial real estate

Specifications

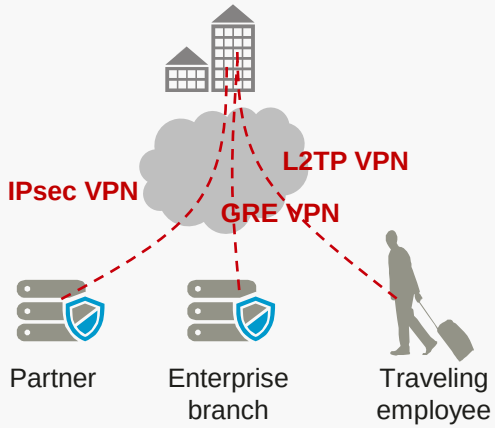
Connected device capacity	200
Forwarding bandwidth	1 Gbps
Forwarding performance	1 Mpps
Port	1 x GE combo port, 4 x GE ports
Heat dissipation	Fanless
VPN	IPsec VPN, GRE VPN, DSVPN, L2TP VPN, L2TPv3VPN
IPsec VPN	75
Security function	Zone-based stateful firewall, online behavior management, URL filtering
IPv4	Static routing, policy-based routing (PBR), RIP, OSPF, IS-IS, BGP
IPv6	Static routing, PBR, RIPng, OSPFv3, IS-ISv6, BGP4+
Management mode	Local web, SNC/eKit app, CLI, SNMP

Highlights

1 **Hyper-convergence: 1 device for 1 network, reducing investment**



2 **Abundant VPN functions, catering to various service scenarios**



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Production Comparison of AR303

Specifications	AR303	C921-4P	Cloud Gateway Ultra
Connected device capacity	200	50	300
Forwarding bandwidth	1 Gbps	Not claimed	1 Gbps (IPS/IDS)
Fixed WAN port	1 x GE combo port	2 x GE ports	1 X 1/2.5GE RJ45 port
Fixed LAN port	4 x GE ports (all of which can be switched to WAN ports)	4 x GE ports	4 X GE RJ45 ports
IPsec VPN	75	50	
Memory	1 GB	1 GB	3 GB
Heat dissipation	Fanless	Fanless	
VPN	IPsec VPN, GRE VPN, DSVPN, L2TP VPN, L2TPv3VPN, VXLAN, PPTP	IPsec VPN, GRE VPN, DSVPN, L2TP VPN, L2TPv3VPN, VXLAN, PPTP, SSLVPN, DMVPN, GET VPN, etc.	License-free SD-WAN WireGuard, L2TP and OpenVPN
IPv4	Static routing, policy-based routing (PBR), RIP, OSPF, IS-IS, BGP	Static routing, PBR, RIP, OSPF, IS-IS, and BGP	
IPv6	Static routing, PBR, RIPng, OSPFv3, IS-ISv6, BGP4+	Static routing, PBR, RIPng, OSPFv3, IS-ISv6, BGP4+	
Management mode	Local web, SNC/eKit app, CLI, SNMP	Local web, CLI, SNMP	

S530 Series: L3, Fully-Managed Core Switches with High Performance, High Reliability, and Flexible Scalability

Overview

L3, fully-managed core switches

- GTM on June 30, 2024
- Global GTM

S530-24T4XE

S530-24ST4XE

S530-48S4XE

Applicable scenarios

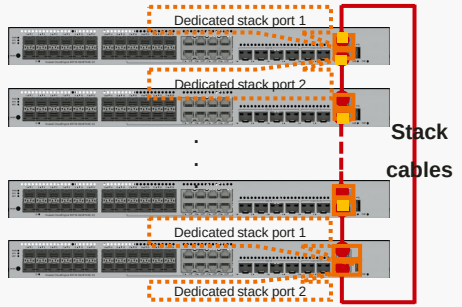
- Used at the aggregation and core layers of midsize and large networks to offer flexible GE access and 10GE uplinks, configuration-free stacking, and high performance and reliability

Specifications

Port	• 24 x GE RJ45 ports, 4 x 10GE SFP+ ports, and 2 x 10GE dedicated stack ports • 24 x GE SFP ports (including 8 x GE combo ports), 4 x 10GE SFP+ ports, and 2 x 10GE dedicated stack ports • 48 x GE SFP ports, 4 x 10GE SFP+ ports, and 2 x 10GE dedicated stack ports
Packet forwarding rate	• 132 Mpps • 132 Mpps • 168 Mpps
Switching capacity	• 176 Gbps • 176 Gbps • 224 Gbps
Power supply	1+1 backup, supporting AC and DC power modules
Long-term operating temperature	- 5°C to + 50°C
Heat dissipation mode	Air cooling, intelligent fan speed adjustment
Management mode	Local web, SNC/eKit app, CLI, SNMP
Routing	• Enhanced L3 features, mature IPv6 features • Static routing, RIPv1/2, RIPng, OSPF, OSPFv3, ECMP, IS-IS, ISISv6, BGP, BGP4+
Stacking	Dedicated stack ports, configuration-free

Highlights

1 Dedicated stack ports, facilitating configuration-free stacking and flexible service expansion



- A maximum of 9 switches can be stacked.
- Different S530 series switch models can be stacked.

2 Fully-managed, catering to diverse management and O&M needs

- Mobile app/Cloud-based web: remote O&M scenario
- Local web: scenario incapable of cloud-based remote O&M
- CLI: senior engineer-based complex function configuration scenario
- SNMP: professional NMS-based large network O&M scenario

3 Enhanced L3 features, satisfying enterprises' diversified service needs

- Support for enhanced L3 features, such as OSPF, IS-IS, BGP, and VRRP, and mature IPv6 features

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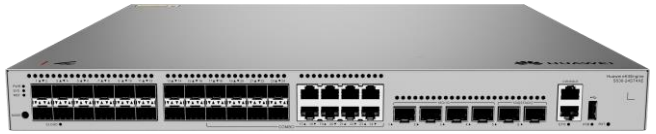
S530-24T4XE/S530-24ST4XE/S530-48S4XE: L3, Fully-Managed Switches

S530-24T4XE

L3, fully-managed switch with 10GE uplinks

Parameter	Specifications
Port	24 x GE RJ45 ports, 4 x 10GE SFP+ ports, and 2 x 10GE dedicated stack ports
Packet forwarding rate	132 Mpps
Switching capacity	176 Gbps
Power supply	1+1 backup, supporting AC and DC power modules
Long-term operating temperature	- 5°C to + 50°C
Heat dissipation mode	Air cooling, intelligent fan speed adjustment
Management mode	eKit app, SNC, local web, CLI, SNMP



S530-24ST4XE

All-optical, L3, fully-managed switch with 10GE uplinks, flexible ports and optical-electrical integration

Parameter	Specifications
Port	24 x GE SFP ports (including 8 x GE combo ports), 4 x 10GE SFP+ ports, and 2 x 10GE dedicated stack ports
Packet forwarding rate	132 Mpps
Switching capacity	176 Gbps
Power supply	1+1 backup, supporting AC and DC power modules
Long-term operating temperature	- 5°C to + 50°C
Heat dissipation mode	Air cooling, intelligent fan speed adjustment
Management mode	eKit app, SNC, local web, CLI, SNMP

S530-48S4XE

All-optical, L3, fully-managed switch with 10GE uplinks

Parameter	Specifications
Port	48 x GE SFP ports, 4 x 10GE SFP+ ports, and 2 x 10GE dedicated stack ports
Packet forwarding rate	168 Mpps
Switching capacity	224 Gbps
Power supply	1+1 backup, supporting AC and DC power modules
Long-term operating temperature	- 5°C to + 50°C
Heat dissipation mode	Air cooling, intelligent fan speed adjustment
Management mode	eKit app, SNC, local web, CLI, SNMP

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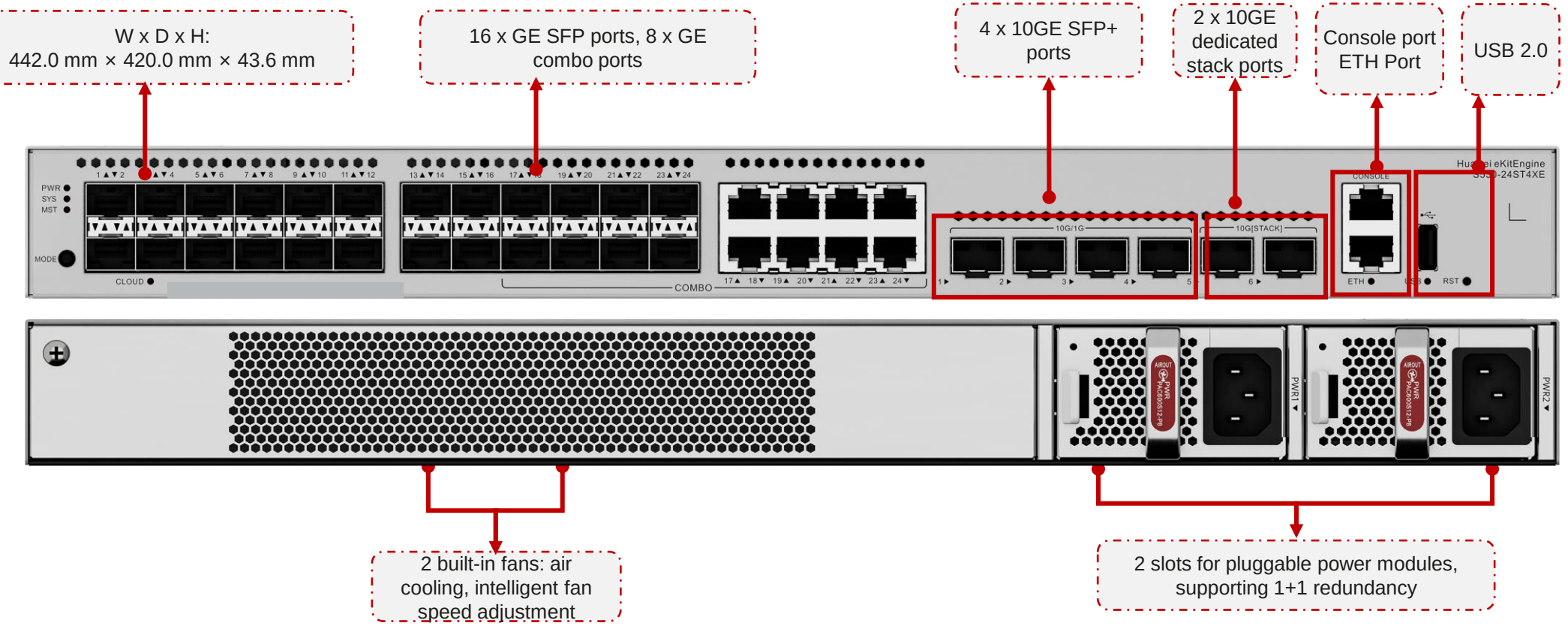
S530-24ST4XE: All-Optical, L3, Fully-Managed Switch



Superfast access

- ***24 x GE optical downlinks and 4 x 10GE optical uplinks**, enabling high-speed access*
- ***2 x 10GE dedicated stack ports**, freeing from uplink ports and enabling configuration-free stacking*

Ultra-high reliability

- ***Dual pluggable power modules for redundancy**, ensuring reliable device running*

Easy O&M

- *Flexible and easy management via **the eKit app, SNC, local web, CLI, or SNMP***

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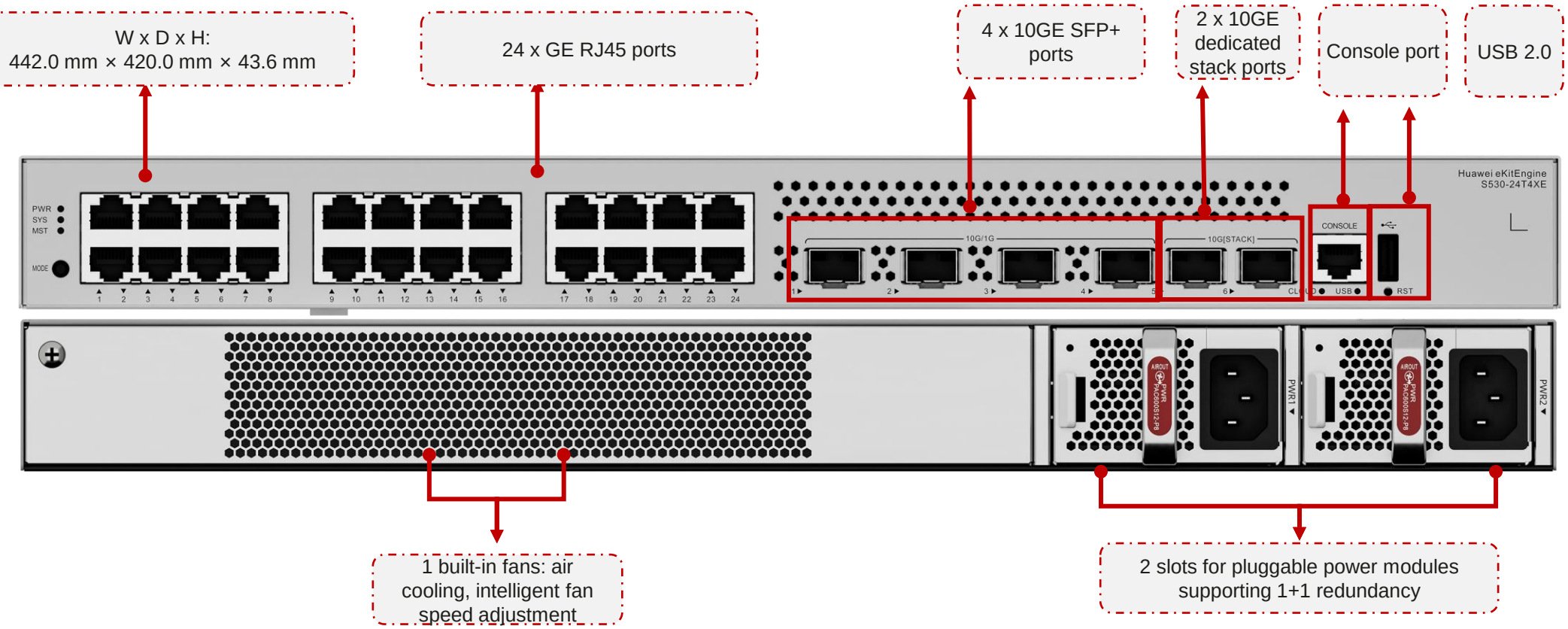
S530-24T4XE: L3, Fully-Managed Switch



Superfast access

- ***24 x GE downlinks and 4 x 10GE optical uplinks****, enabling high-speed access*
- ***2 x 10GE dedicated stack ports****, freeing from uplink ports and enabling configuration-free stacking*

Ultra-high reliability

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Easy O&M

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S530-48S4XE: L3, Fully-Managed Switch

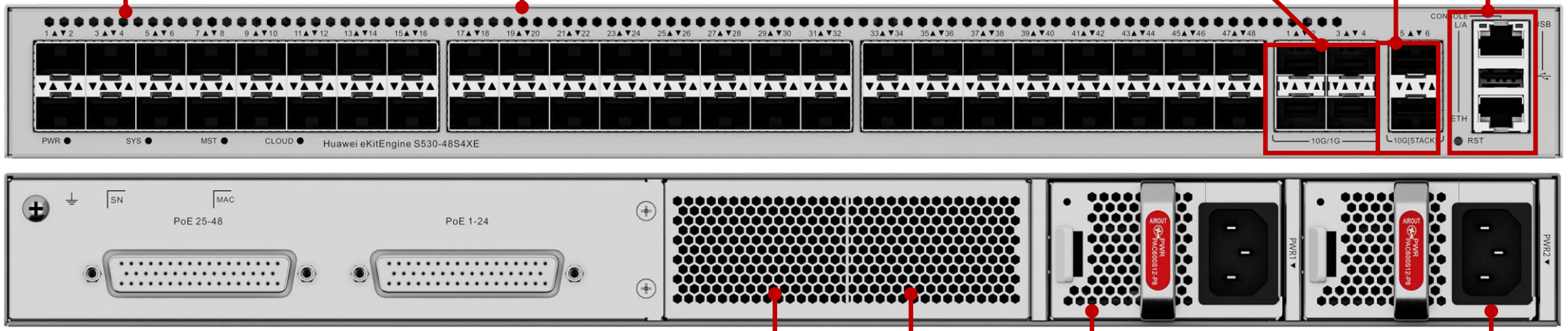
W x D x H:
442.0 mm × 420.0 mm × 43.6 mm

48 x GE SFP ports

4 x 10GE SFP+ ports

2 x 10GE dedicated stack ports

Console port
USB 2.0
ETH port



2 built-in fans: air cooling, intelligent fan speed adjustment

2 slots for pluggable power modules supporting 1+1 redundancy

Superfast access

- ***48 x GE SFP downlinks and 4 x 10GE optical uplinks**, enabling high-speed access*
- ***2 x 10GE dedicated stack ports**, freeing from uplink ports and enabling configuration-free stacking*

Ultra-high reliability

- ***Dual pluggable power modules for redundancy**, ensuring reliable device running*

Easy O&M

- *Flexible and easy management via **the eKit app, SNC, local web, CLI, or SNMP***

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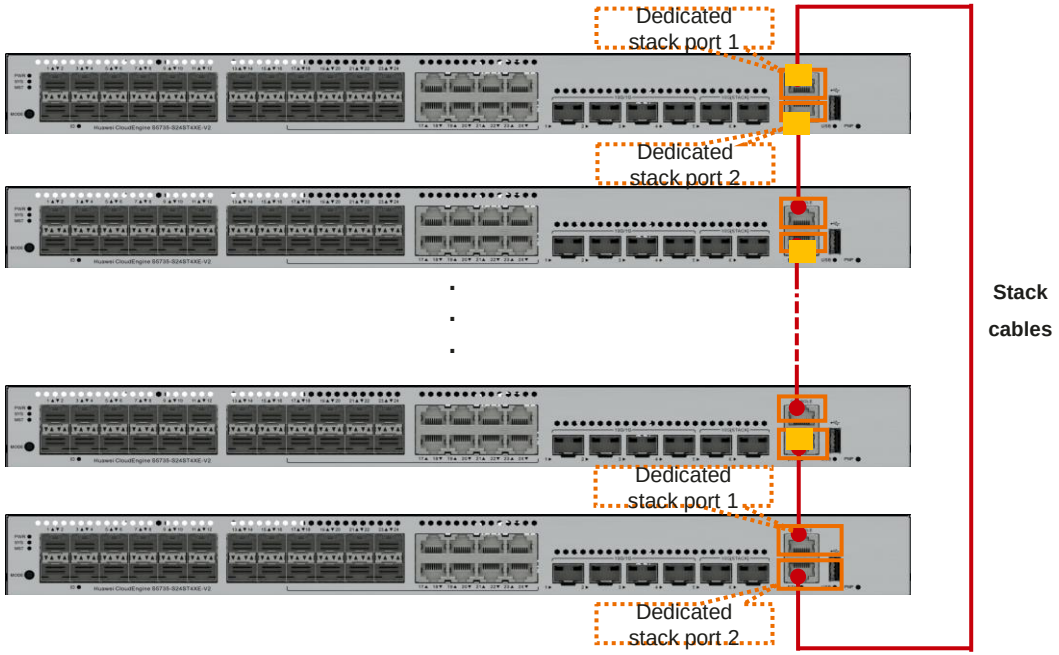
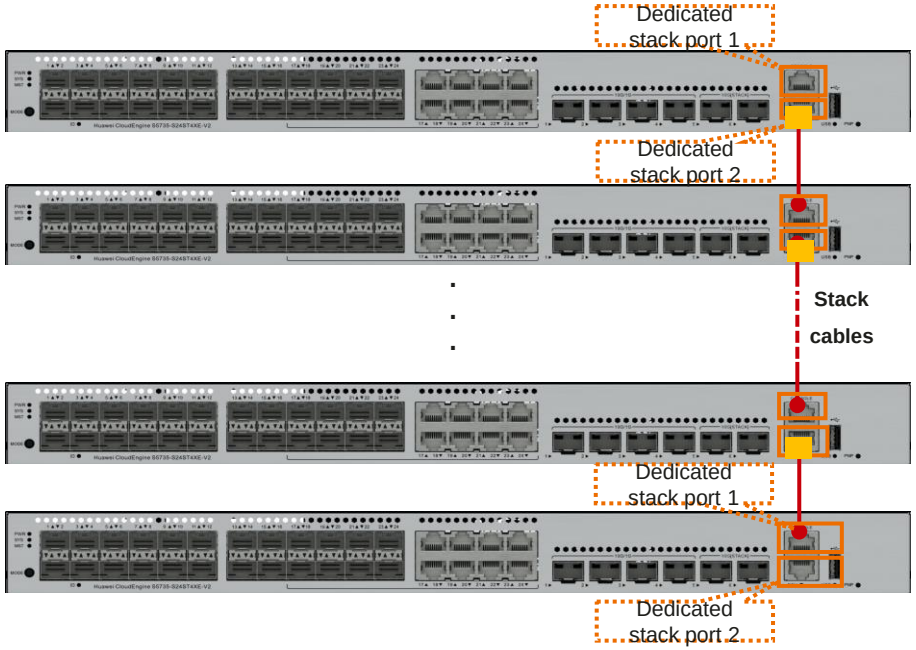
Configuration-Free Stacking, Up to 9 Switches in a Single Stack

Dedicated stack cable connections — ring topology



Indicates the master end (with the Master tag) of a stack cable

Dedicated stack cable connections — chain topology



- A maximum of 9 switches can be stacked. Different S530 series switch models can be stacked.
- Dedicated stack cables are used, enabling plug-and-play without service configuration.

A dedicate stack cable has two ends: master end with the Master tag and standby end without any tag.

When dedicated stack cables are used for stacking, switches can automatically set up a stack after such stack cables are connected to ports according to connection rules. To ensure reliability, the ring topology is recommended.

Dedicated Stack Cables for Switches

Dedicated stack cable

Dedicated stack cable

- Used for stacking via **GE/10GE** optical ports
- **Configuration-free** stacking, plug-and-play cable

Two options: 0.5 m and 1.5 m

Model	Length	Electrical Attribute	Bending Radius	Connector Type	Part Number	Port
SFP+STACK-CU0M5	0.5 m	Passive	25 mm	SFP+ <-> SFP+	02311VGK	Dedicated stack port on S530
SFP+STACK-CU1M5	1.5 m	Passive	25 mm	SFP+ <-> SFP+	02311VGN	Dedicated stack port on S530

THANK YOU