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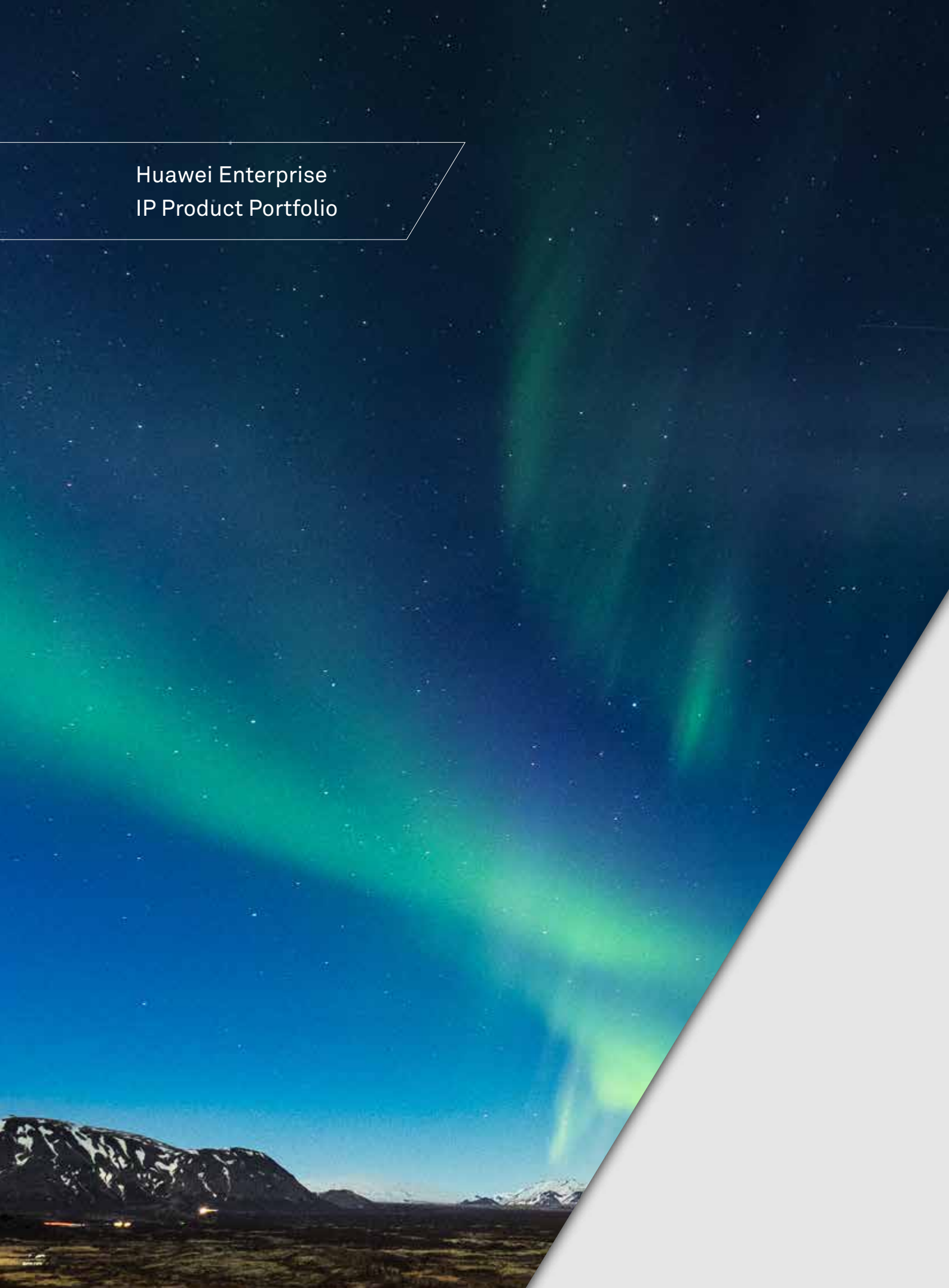
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Huawei Enterprise IP Product Portfolio



Huawei Enterprise
IP Product Portfolio



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Data Center Switch CloudEngine Series Products

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Product and Solution Overview

Huawei CloudEngine (CE) series switches are high-performance cloud switches designed for next-generation data centers and high-end campus networks. This series includes Huawei's flagship CE12800 core switches with the world's highest performance, CE8800/7800/6800/5800 high-performance aggregation and access switches, and CE1800V distributed virtual switch. The CloudEngine series uses Huawei's next-generation VRP8 software platform and supports extensive data center and campus network service features.

The CloudFabric solution is based on Huawei's flagship CloudEngine 12800 series data center core switches, CloudEngine 8800/7800/6800/5800 series high-performance fixed switches, and CloudEngine 1800V virtual switch. These switches are used with the Huawei Agile Controller to provide customers with an all-cloud data center network. The solution also integrates transmission, routing, security, and network management products, which can be combined with the data center switches to deliver a one-stop data center network solution.

CE12800 Series

CE12800 switches are high-performance core switches designed for data center networks and high-end campus networks.

Their advanced hardware architecture offers the highest performance of any currently available core switches, with as much as 178 Tbit/s per chassis switching capacity and up to 576*100GE, 576*40GE, 2,304*25GE, or 2,304*10GE line rate ports.

The CE12800 switches use an industry-leading Clos architecture and a front-to-back airflow design to provide industrial-grade reliability. The switches also provide comprehensive virtualization capabilities and data center service features. Moreover, their energy-saving designs greatly reduce power consumption.

The CE12800 series is available in six models: CE12816, CE12812, CE12808, CE12804, CE12808S, and CE12804S. They all use interchangeable modules to reduce costs of spare parts. This design ensures device scalability and provides investment protection.

Figure 1 CE12800 series



Item	CE12804S	CE12808S	CE12804	CE12808	CE12812	CE12816
Switching capacity (Tbit/s)	45/258 ¹	89/516 ¹	45/258 ¹	89/516 ¹	134/774 ¹	178/1032 ¹
Forwarding performance (Mpps)	17,280	34,560	17,280	34,560	51,840	69,120
Service slots	4	8	4	8	12	16
Switching fabric module slots	2	4	6	6	6	6
Fabric architecture	Clos architecture, cell switching, VoQ, and distributed large buffer					
Airflow design	Strict front-to-back					
Device virtualization	VS, CSS, SVF, M-LAG					
Network virtualization	VxLAN, BGP-EVPN, TRILL					

CE8800 Series



The CE8800 series switch is a high-performance 100GE TOR switch released for data centers and high-end campus networks. It can act as an access node to support high-density 25GE/10GE server

access, a compact core or aggregation node on a small-sized network, or connect to High-Performance Computing (HPC) servers.

The CE8860 is the industry's first 25GE access TOR switch and provides high-density 100GE/40GE uplink ports for connection with core switches. It provides up to 32*100GE, 64*40GE, or 128*25GE/10GE ports, which can be used in combinations through cards, delivering flexible, high-density access and aggregation capabilities.

The CE8850 provides high-density 100GE QSFP28 ports, L2/L3 line-rate forwarding, extensive data center features, high-performance stacking capability.

The CE8800 comes in two models.



Model and Appearance	Description
 <p>CE8860-4C-EI</p>	<ul style="list-style-type: none"> Supports four half-width interface cards: <ul style="list-style-type: none"> » 24-port 10GE SFP+ or 25GE SFP28 and 2-port 100GE QSFP28 interface card » 24-port 10GE BASE-T and 2-port 100GE QSFP28 interface card » 8-port 100GE QSFP28 interface card » 16-port 40GE QSFP+ interface card 6.4 Tbit/s switching capacity, forwarding performance 3200Mpps Rich data center features: M-LAG, VxLAN, BGP-EVPN, TRILL, iStack, FCoE Flexible front-to-back or back-to-front airflow
 <p>CE8850-32CQ-EI</p>	<ul style="list-style-type: none"> 32*100GE QSFP28 ports, 2*10GE SFP+ ports 6.4 Tbit/s switching capacity, forwarding performance 3200Mpps Rich data center features: M-LAG, VxLAN, BGP-EVPN, iStack, FCoE Flexible front-to-back or back-to-front airflow

CE7800 Series

The CE7800 switches can be used as core or aggregation switches on data centers and campus networks.

Using an advanced hardware design, the CE7800 series provides high-density 40GE QSFP+ ports (each can be split into four 10GE SFP+ ports), L2/L3 line-rate forwarding, extensive data center features, high-performance stacking capability. CE7800 switches support front-to-back and back-to-front airflows for you to choose based on the airflow direction in your equipment room.

The CE7800 series comes in two models.






Model and Appearance	Description
 <p>CE7850-32Q-EI</p>	<ul style="list-style-type: none"> 32*40GE QSFP+ ports 2.56Tbit/s switching capacity, forwarding performance 1440Mpps Rich data center features: M-LAG, VxLAN, BGP-EVPN, TRILL, iStack, SVF, FCoE Flexible front-to-back or back-to-front airflow
 <p>CE7855-32Q-EI</p>	<ul style="list-style-type: none"> 32*40GE QSFP+ ports 2.56Tbit/s switching capacity, forwarding performance 1440Mpps Rich data center features: M-LAG, VxLAN, VxLAN RIOT, BGP-EVPN, TRILL, iStack, SVF, FCoE Flexible front-to-back or back-to-front airflow








CE6800 Series

The CE6800 switches provide high-density 10GE/25GE access in data centers and can also be used as core or aggregation switches on campus networks.

The CE6800 series has an advanced hardware design, which provides the industry's highest density of 10GE/25GE downlink ports as well as 100GE QSFP28 or 40GE QSFP+ uplink ports. (A 100GE QSFP28 port can be split into four 25GE SFP28 ports or work as a 40GE QSFP+ port. A 40GE QSFP+ port can be split into four 10GE SFP+ ports). The CE6800 switches provide L2/L3 line-rate forwarding on these interfaces and support extensive data center features, high-performance stacking capability. They support front-to-back and back-to-front airflows for you to choose based on the airflow direction in your equipment room.

The CE6800 series comes in twelve models.

Model and Appearance	Description
 <p>CE6850U-48S6Q-HI</p>	<ul style="list-style-type: none"> • 48*10GE SFP+ ports, or 2/4/8G FC ports,6*40GE QSFP+ ports • 1.44Tbit/s switching capacity, forwarding performance 1080Mpps • Rich data center features: M-LAG, VxLAN, TRILL, EVPN, iStack, SVF, FCoE • Flexible front-to-back or back-to-front airflow
 <p>CE6870-48T6CQ-EI</p>	<ul style="list-style-type: none"> • 48-port 10GE BASE-T , and 6-port 100GE QSFP28, • 4GB deep buffer, 2.16Tbit/s switching capacity, forwarding performance 720Mpps • Rich data center features: M-LAG, VxLAN, VxLAN RIOT, BGP-EVPN, TRILL, iStack, FCoE • Flexible front-to-back or back-to-front airflow
 <p>CE6870-48S6CQ-EI</p>	<ul style="list-style-type: none"> • 48*10GE SFP+ ports,6*100GE QSFP28 ports • 4GB deep buffer, 2.16Tbit/s switching capacity, forwarding performance 720Mpps • Rich data center features: M-LAG, VxLAN, VxLAN RIOT, BGP-EVPN, TRILL, iStack, FCoE • Flexible front-to-back or back-to-front airflow
 <p>CE6870-24S6CQ-EI</p>	<ul style="list-style-type: none"> • 24*10GE SFP+ ports,6*100GE QSFP28 ports • 4GB deep buffer, 1.68Tbit/s switching capacity, forwarding performance 720Mpps • Rich data center features: M-LAG, VxLAN, VxLAN RIOT, BGP-EVPN, TRILL, iStack, FCoE • Flexible front-to-back or back-to-front airflow
 <p>CE6860-48S8CQ-EI</p>	<ul style="list-style-type: none"> • 48*25GE SFP28 ports, 8*100GE QSFP28 ports • 4Tbit/s switching capacity, forwarding performance 3000Mpps • Rich data center features: M-LAG, VxLAN, BGP-EVPN, iStack, FCoE • Flexible front-to-back or back-to-front airflow






Model and Appearance	Description
 <p>CE6855-48S6Q-HI</p>	<ul style="list-style-type: none"> • 48*10GE SFP+ ports, 6*40GE QSFP+ ports • 1.44Tbit/s switching capacity, forwarding performance 1080Mpps • Rich data center features: M-LAG, VxLAN, VxLAN RIOT, BGP-EVPN, TRILL, iStack, SVF, FCoE • Flexible front-to-back or back-to-front airflow
 <p>CE6855-48T6Q-HI</p>	<ul style="list-style-type: none"> • 48*10GE Base-T ports, 6*40GE QSFP+ ports • 1.44Tbit/s switching capacity, forwarding performance 1080Mpps • Rich data center features: M-LAG, VxLAN, TRILL, BGP-EVPN, iStack, SVF, FCoE • Flexible front-to-back or back-to-front airflow
 <p>CE6851-48S6Q-HI</p>	<ul style="list-style-type: none"> • 48*10GE SFP+ ports, 6*40GE QSFP+ ports • 1.44Tbit/s switching capacity, forwarding performance 1080Mpps • Rich data center features: M-LAG, VxLAN, BGP-EVPN, TRILL, iStack, SVF, FCoE • Flexible front-to-back or back-to-front airflow
 <p>CE6850-48T6Q-HI</p>	<ul style="list-style-type: none"> • 48*10GE BASE-T ports, 6*40GE QSFP+ ports • 1.44Tbit/s switching capacity, forwarding performance 1080Mpps • Rich data center features: M-LAG, VxLAN, BGP-EVPN, TRILL, iStack, SVF, FCoE • Flexible front-to-back or back-to-front airflow
 <p>CE6810-48S4Q-LI</p>	<ul style="list-style-type: none"> • 48*10GE SFP+ ports, 4*40GE QSFP+ ports • 1.28Tbit/s switching capacity, forwarding performance 960Mpps • Rich data center features: M-LAG, iStack, SVF, FCoE • Flexible front-to-back or back-to-front airflow
 <p>CE6810-32T16S4Q-LI</p>	<ul style="list-style-type: none"> • 32*10GE BASE-T ports, 16*10GE SFP+ ports, 4*40GE QSFP+ ports • 1.28Tbit/s switching capacity, forwarding performance 960Mpps • Rich data center features: M-LAG, iStack, SVF, FCoE • Flexible front-to-back or back-to-front airflow
 <p>CE6810-24S2Q-LI</p>	<ul style="list-style-type: none"> • 24*10GE SFP+ ports, 2*40GE QSFP+ ports • 640Gbit/s switching capacity, forwarding performance 480Mpps • Rich data center features: M-LAG, iStack, SVF, FCoE • Flexible front-to-back or back-to-front airflow

CE5800 Series

The CE5800 switches provide high-density GE access in data centers and can also be used as aggregation or access switches on campus networks.

The CE5800 series is the first in the industry to provide 40GE uplink ports, and the advanced hardware design supports the industry's highest density of GE access ports. The CE5800 switches provide L2/L3 line-speed forwarding, extensive data center features, and high-performance stacking capability. They support front-to-back and back-to-front airflows for you to choose based on the airflow direction in your equipment room.

The CE5800 series comes in five models.

Model and Appearance	Description
 <p data-bbox="304 886 533 911">CE5855-48T4S2Q-EI</p>	<ul data-bbox="619 808 1267 929" style="list-style-type: none"> • 48*GE BASE-T ports, 4*10GE SFP+ ports, 2*40GE QSFP+ ports • 336Gbit/s switching capacity, forwarding performance 252Mpps • Rich data center features: M-LAG, TRILL, iStack, SVF • Flexible front-to-back or back-to-front airflow
 <p data-bbox="304 1093 533 1118">CE5855-24T4S2Q-EI</p>	<ul data-bbox="619 1019 1267 1140" style="list-style-type: none"> • 24*GE BASE-T ports, 4*10GE SFP+ ports, 2*40GE QSFP+ ports • 288Gbit/s switching capacity, forwarding performance 215Mpps • Rich data center features: M-LAG, TRILL, iStack, SVF • Flexible front-to-back or back-to-front airflow
 <p data-bbox="304 1304 533 1330">CE5850-48T4S2Q-HI</p>	<ul data-bbox="619 1231 1267 1351" style="list-style-type: none"> • 48*GE BASE-T ports, 4*10GE SFP+ ports, 2*40GE QSFP+ ports • 336Gbit/s switching capacity, forwarding performance 252Mpps • Rich data center features: M-LAG, TRILL, iStack, SVF • Flexible front-to-back or back-to-front airflow
 <p data-bbox="304 1515 533 1541">CE5810-48T4S-EI</p>	<ul data-bbox="619 1442 1267 1563" style="list-style-type: none"> • 48*GE BASE-T ports, 4*10GE SFP+ ports • 176Gbit/s switching capacity, forwarding performance 132Mpps • Rich data center features: M-LAG, iStack, SVF • Flexible front-to-back or back-to-front airflow
 <p data-bbox="304 1726 533 1752">CE5810-24T4S-EI</p>	<ul data-bbox="619 1653 1267 1774" style="list-style-type: none"> • 24*GE BASE-T ports, 4*10GE SFP+ ports • 128Gbit/s switching capacity, forwarding performance 96Mpps • Rich data center features: M-LAG, iStack, SVF • Flexible front-to-back or back-to-front airflow

CloudEngine 1800V

CE1800V is a distributed virtual switch used in a virtualized data center environment.

The CE1800V provides extensive functions, good interoperability, and is easy to manage. It can run on VMware, Software, and open-source virtualization platforms to provide high-speed distributed switching for VMs. Huawei CE1800V software switch, CloudEngine series hardware switches, and Agile Controller jointly build an integrated network virtualization solution.



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Campus Switch SX700 Series Products

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S12700 Series Agile Switches

HUAWEI S12700 series agile switches are designed for next-generation campus networks. Using a fully programmable switching architecture, the S12700 series allows fast, flexible function customization and supports a smooth evolution to Software-Defined Networking (SDN). The S12700 series uses a Huawei Ethernet Network Processor (ENP) and provides a native Wireless Access Controller (AC) to help build a wired and wireless converged network. Its Unified User Management capabilities deliver unified user and service management, and Huawei's Packet Conservation Algorithm for Internet (iPCA) supports hop-by-hop monitoring of any service flows, helping manage services in a more refined way. The S12700 series runs the Huawei Versatile Routing Platform (VRP), which provides high-performance L2/L3 switching services and rich network services, such as Multiprotocol Label Switching (MPLS) VPN, hardware IPv6, desktop cloud, and video conferencing. In addition, the S12700 series offers a variety of reliability technologies, including non-stop forwarding, Cluster Switch System Generation2(CSS2), a switch fabric hardware clustering system that allows 1+N backup of Main Processing Units (MPUs), hardware Eth-OAM/BFD, and ring network protection. These technologies help improve productivity and maximize network operation time, reducing Total Cost of Ownership (TCO).

The S12700 series is available in four models: S12704, S12708, S12710 and S12712.



Product Specifications

Item	S12704	S12708	S12710	S12712
Switching capacity	4.88Tbps/ 16.08Tbps	12.32Tbps/ 32.16Tbps	13.12Tbps/ 38.56Tbps	17.44Tbps/ 44.96Tbps
Packet forwarding rate	3120Mpps/ 4560Mpps	6240Mpps/ 9120Mpps	7440Mpps/ 11040Mpps	9120Mpps/ 12960Mpps
MPU slots	2	2	2	2
SFU slots	2	4	4	4
Service card slots	4	8	10	12

S9700 Series Switches

The S9700 series terabit routing switches (S9700 for short) are high-end switches designed for next-generation campus networks and data centers to implement service aggregation.

Based on Huawei Versatile Routing Platform (VRP), the S9700 provides high L2/L3 switching capabilities and integrates diversified services such as MPLS VPN, hardware IPv6, desktop cloud, video conferencing, and wireless access. In addition, the S9700 also provides a variety of reliability technologies including non-stop forwarding, hardware OAM/BFD, and ring network protection. These technologies improve customers' network operation efficiency, maximize the device running time, and reduce customers' total cost of ownership (TCO).

An S9700 can be upgraded to an agile switch when it is equipped with X2S/X2E/X2H/X1E cards, the line cards with Huawei-developed Ethernet Network Processor (ENP) chips inside. Agile switches allow customers to make innovations on their networks.

The S9700 series is available in three models: S9703, S9706, and S9712.



Product Specifications

Item	S9703	S9706	S9712
Switching capacity	2.88/5.76 Tbit/s	6.72/14.72 Tbit/s	8.64/18.56 Tbit/s
Packet forwarding rate	2160 Mpps	2880/5040 Mpps	3840/6480 Mpps
Service slots	3	6	12

S7700 Series Switches

Product Overview

The S7700 series switches (S7700 for short) are high-end smart routing switches designed for next-generation enterprise networks. The S7700 design is based on Huawei's intelligent multi-layer switching technology to provide intelligent service optimization methods, such as MPLS VPN, traffic analysis, comprehensive HQoS policies, controllable multicast, load balancing, and security, in addition to high-performance Layer 2 to Layer 4 switching services. The S7700 also features super scalability and reliability.

The S7700 can function either as an aggregation or core node on a campus network or in a data center to provide integrated wireless access. The S7700 also offers voice, video, and data services, helping enterprises build routing and switching integrated end-to-end networks.

An S7700 running the V2R5C00 or later system software can be upgraded to an agile switch by using an agile card, which is equipped with Huawei-developed Ethernet Network Processor (ENP) chips inside. Customers can benefit from the agile switch.

The S7700 series is available in three models: S7703, S7706, and S7712. The switching capacity and port density of all three models is expandable. The S7700 is developed based on a new hardware platform and adopts a left-to-rear ventilation channel to achieve better energy efficiency. Key components work in redundancy mode to minimize risks of system breakdown and service interruption. Using innovative energy-saving chips, the S7700 provides an industry-leading solution for a sustainable energy-saving network.



S7703

S7706

S7712

Product Specifications

Item	S7703	S7706	S7712
Switching capacity	1.92 Tbps	3.84 Tbps	3.84Tbps
Forwarding performance	1440 Mpps	2880 Mpps	2880 Mpps
MPU slot	2	2	2
Service slot	3	6	12

S6720 Series Switches

Product Overview

The S6720 series switches are next-generation 10GE box switches. The S6720 can function as an access switch in an Internet data center (IDC) or a core/aggregation switch on a campus network.

The S6720 has industry-leading performance, provides line-speed 10GE access ports and line-speed 40GE uplink ports. It can be used in a data center to provide 10 Gbit/s access to servers or function as a core switch on a campus network to provide 10 Gbit/s traffic aggregation. In addition, the S6720 provides a wide variety of services, comprehensive security policies, and various QoS features to help customers build scalable, manageable, reliable, and secure data centers.

S6720S-26Q-EI-24S is a compact switch with 220mm depth , perfectly suitable in a 300 mm deep cabinet, saving installation space for customers.

Product Appearance

S6720-30C-EI-24S-AC
S6720-30C-EI-24S-DC



- 24 × 10GE SFP+, 2 × 40GE QSFP+ ports
- One extended slot for 4 × 40GE QSFP+ interface card
- Double hot swappable AC/DC power supplies
- Forwarding performance: 720 Mpps
- Switching capacity: 2.56 Tbps

S6720-54C-EI-48S-AC
S6720-54C-EI-48S-DC



- 48 × 10GE SFP+, 2 × 40GE QSFP+ ports
- One extended slot for 4 × 40GE QSFP+ interface card
- Double hot swappable AC/DC power supplies
- Forwarding performance: 1080 Mpps
- Switching capacity: 2.56 Tbps

S6720S-26Q-EI-24S-AC
S6720S-26Q-EI-24S-DC



- 24 × 10GE SFP+, 2 × 40GE QSFP+ ports
- Double hot swappable AC/DC power supplies
- Forwarding performance: 480 Mpps
- Switching capacity: 2.56 Tbps

S5720-HI Series Switches

Product Overview

Huawei S5720-HI series switches are advanced gigabit Ethernet switches that provide various agile features. The switches are developed based on Huawei Versatile Routing Platform (VRP), and use the fully programmable structure to implement software definition and service change on demand. With services and network convergence as the core, the switches provide the free mobility function to ensure consistent user experience. Besides, it provides wireless AC functions. The Super Virtual Fabric (SVF) function virtualizes the entire network into one device. In addition, the switches support flexible Ethernet networking, comprehensive VPN tunnel solutions, various security control methods, intelligent deployment, and simple operations & maintenance (O&M). The S5720-HI series switches are the best choices for the branches of high-quality large- and middle-sized campus networks, the core layer of small-sized campus networks, and the access layer of data center networks.

Models and Appearances

The following models are available in the S5720-HI series.



- 16 Gig SFP ports, 8 × Combo Gig ports, 4 × 10 Gig SFP+
- One extended slot
- Hot-swappable dual AC power supplies, one AC power supply equipped by default
- Forwarding performance: 168 Mpps
- Switching capacity: 598 Gbit/s



- 48 Ethernet 10/100/1000Base-T ports, 4 × 10 Gig SFP+
- One extended slot
- Hot-swappable dual AC power supplies, one AC power supply equipped by default
- Forwarding performance: 192 Mpps
- Switching Capacity: 598 Gbit/s



- 48 Ethernet 10/100/1000Base-T ports, 4 × 10 Gig SFP+
- One extended slot
- Hot-swappable dual AC power supplies, one AC power supply equipped by default
- 580W/1150W AC power supply
- PoE+, PoE
- Forwarding performance: 192 Mpps
- Switching Capacity: 598 Gbit/s

S5720-EI Series Switches

Product Overview

The S5720-EI series enhanced gigabit Ethernet switches (S5720-EI for short) are next-generation switches that provide flexible GE access ports (including optical, electrical, and combo ports) and 10GE uplink ports. Built on next-generation high-performing processors and the Huawei Versatile Routing Platform (VRP), the S5720-EI provides larger table sizes and higher hardware processing capabilities than equivalent switches. comprehensive service processing capabilities, enhanced security control, and mature IPv6 features, and supports MACsec, intelligent stack (iStack), flexible Ethernet networking, and easy operations and maintenance (O&M). With all these advantages, the S5720-EI is widely used for access/aggregation in enterprise campus networks or gigabit access in data center networks.

Models and Appearances

S5720-32P-EI-AC



- 24 Ethernet 10/100/1000 ports, 4 100/1000 SFP, 4 Gig SFP, 2 QSFP+
- Fixed AC power supply, RPS supported
- Forwarding performance: 48 Mpps
- Switching capacity: 598 Gbit/s

S5720-32X-EI-AC
S5720-32X-EI-DC



- 24 Ethernet 10/100/1000 ports, 4 100/1000 SFP, 4 x 10 Gig SFP+, 2 QSFP+
- Fixed AC/DC power supply, RPS supported
- Forwarding performance: 102 Mpps
- Switching capacity: 598 Gbit/s

S5720-32X-EI-24S-AC
S5720-32X-EI-24S-DC



- 24 Gig SFP, 4 Ethernet 10/100/1000 ports, 4 x 10 Gig SFP+, 2 QSFP+
- Fixed AC/DC power supply, RPS supported
- Forwarding performance: 102 Mpps
- Switching capacity: 598 Gbit/s

S5720-36C-EI-28S-AC
S5720-36C-EI-28S-DC



- 24 Gig SFP, 4 x Combo Gig ports, 4 x 10 Gig SFP+
- One extended slot
- Hot-swappable dual AC/DC power supplies, one AC/DC power supply equipped by default
- Forwarding performance: 132 Mpps
- Switching capacity: 598 Gbit/s

S5720-36C-EI-AC
S5720-36C-EI-DC



- 24 Ethernet 10/100/1000 ports, 4 x Combo Gig ports, 4 x 10 Gig SFP+
- One extended slot
- Hot-swappable dual AC/DC power supplies, one AC/DC power supply equipped by default
- Forwarding performance: 132 Mpps
- Switching capacity: 598 Gbit/s

S5720-36C-PWR-EI-AC
S5720-36C-PWR-EI-DC



- 24 Ethernet 10/100/1000 PoE+ ports, 4 × Combo Gig ports, 4 × 10 Gig SFP+
- One extended slot
- PoE+
- Hot-swappable dual AC/DC power supplies, one AC/DC power supply equipped by default
- Forwarding performance: 132 Mpps
- Switching capacity: 598 Gbit/s

S5720-36PC-EI-AC



- 24 Ethernet 10/100/1000 ports, 4 × Combo Gig ports, 4 Gig SFP
- One extended slot
- Hot-swappable dual AC power supplies, one AC power supply equipped by default
- Forwarding performance: 78 Mpps
- Switching capacity: 598 Gbit/s

S5720-50X-EI-AC
S5720-50X-EI-DC



- 46 Ethernet 10/100/1000 ports, 4 × 10 Gig SFP+, 2 QSFP+
- Fixed AC/DC power supply, RPS supported
- Forwarding performance: 129 Mpps
- Switching capacity: 598 Gbit/s

S5720-50X-EI-46S-AC
S5720-50X-EI-46S-DC



- 46 Gig SFP, 4 × 10 Gig SFP+, 2 QSFP+
- Fixed AC/DC power supply, RPS supported
- Forwarding performance: 129 Mpps
- Switching capacity: 598 Gbit/s

S5720-52X-EI-AC



- 48 Ethernet 10/100/1000 ports, 4 × 10 Gig SFP+, 2 QSFP+
- Fixed AC power supply, RPS supported
- Forwarding performance: 132 Mpps
- Switching capacity: 598 Gbit/s

S5720-52P-EI-AC



- 48 Ethernet 10/100/1000 ports, 4 Gig SFP, 2 QSFP+
- Fixed AC power supply, RPS supported
- Forwarding performance: 78 Mpps
- Switching capacity: 598 Gbit/s

S5720-56C-EI-48S-AC
S5720-56C-EI-48S-DC



- 48 Gig SFP, 4 × 10 Gig SFP+
- One extended slot
- Hot-swappable dual AC/DC power supplies, one AC/DC power supply equipped by default
- Forwarding performance: 162 Mpps
- Switching capacity: 598 Gbit/s

S5720-56C-EI-AC
S5720-56C-EI-DC



- 48 Ethernet 10/100/1000 ports, 4 × 10 Gig SFP+
- One extended slot
- Hot-swappable dual AC/DC power supplies, one AC/DC power supply equipped by default
- Forwarding performance: 162 Mpps
- Switching capacity: 598 Gbit/s

S5720-56C-PWR-EI-AC
S5720-56C-PWR-EI-AC1
S5720-56C-PWR-EI-DC



- 48 Ethernet 10/100/1000 PoE+ ports, 4 × 10 Gig SFP+
- One extended slot
- PoE+
- Hot-swappable dual AC/DC power supplies, one AC/DC power supply equipped by default
- 500W/1100W AC power supply
- Forwarding performance: 162 Mpps
- Switching capacity: 598 Gbit/s

S5720-56PC-EI-AC



- 48 Ethernet 10/100/1000 ports, 4 Gig SFP
- One extended slot
- Hot-swappable dual AC power supplies, one AC power supply equipped by default
- Forwarding performance: 108 Mpps
- Switching capacity: 598 Gbit/s

S5720-SI Series Switches

Product Overview

The S5720-SI series switches (S5720-SI for short) are next-generation standard gigabit Layer 3 Ethernet switches that provide flexible full gigabit access and cost-effective fixed GE ports and 10GE uplink ports. The S5720-SI was developed based on next-generation high-performing hardware and the Huawei Versatile Routing Platform (VRP). The S5720-SI supports simplified operations and maintenance (O&M), intelligent stack (iStack), flexible Ethernet networking, and MACsec. It also provides enhanced Layer 3 features and mature IPv6 features. The S5720-SI can be used in various scenarios. For example, it can be used as an access or aggregation switch on a campus network or as an access switch in a data center.

The S5720-SI can work in cloud-based management mode or traditional management based on requirements. In cloud-based management mode, the S5720-SI can be monitored, managed, and configured on the Huawei cloud management platform (Agile Controller-Campus). A mobile O&M App is also supported.

Models and Appearances

The following models are available in the S5720-SI series.

S5720-28P-SI-AC



- 24 Ethernet 10/100/1000 ports, 4 × Combo Gig ports, 4 Gig SFP
- Hot-swappable dual AC power supplies, one AC power supply equipped by default
- Forwarding performance: 42 Mpps
- Switching capacity: 336 Gbit/s

S5720-28X-SI-AC
S5720-28X-SI-DC



- 20 Ethernet 10/100/1000 ports, 4 × Combo Gig ports, 4 × 10 Gig SFP+
- Hot-swappable dual AC/DC power supplies, one AC/DC power supply equipped by default
- Forwarding performance: 96 Mpps
- Switching capacity: 336 Gbit/s

S5720-28X-SI-24S-AC



S5720-28X-SI-24S-DC



- 16 /100/1000 SFP, 8 × Combo Gig ports, 4 × 10 Gig SFP+
- Hot-swappable dual AC/DC power supplies, one AC/DC power supply equipped by default
- Forwarding performance: 96 Mpps
- Switching capacity: 336 Gbit/s

S5720-52P-SI-AC



- 48 Ethernet 10/100/1000 ports, 4 Gig SFP
- Hot-swappable dual AC power supplies, one AC power supply equipped by default
- Forwarding performance: 78 Mpps
- Switching capacity: 336 Gbit/s

S5720-52X-SI-AC
S5720-52X-SI-DC



- 48 Ethernet 10/100/1000 ports, 4 × 10 Gig SFP+
- Hot-swappable dual AC/DC power supplies, one AC/DC power supply equipped by default
- Forwarding performance: 132 Mpps
- Switching capacity: 336 Gbit/s

S5720-28X-PWR-SI-AC
S5720-28X-PWR-SI-DC



- 20 Ethernet 10/100/1000 PoE+ ports, 4 × Combo Gig ports , 4 × 10 Gig SFP+
- Hot-swappable dual AC/DC power supplies, one AC/DC power supply equipped by default
- PoE+
- Forwarding performance: 96 Mpps
- Switching capacity: 336 Gbit/s

S5720-52X-PWR-SI-AC
S5720-52X-PWR-SI-DC



- 48 Ethernet 10/100/1000 PoE+ ports, 4 × 10 Gig SFP+
- Hot-swappable dual AC/DC power supplies, one AC/DC power supply equipped by default
- PoE+
- Forwarding performance: 132 Mpps
- Switching capacity: 336 Gbit/s

S5720-52X-PWR-SI-ACF



- 48 Ethernet 10/100/1000 PoE+ ports, 4 × 10 Gig SFP+
- Hot-swappable dual AC power supplies, one AC power supply equipped by default
- 1150W AC power supply
- PoE+
- Forwarding performance: 132 Mpps
- Switching capacity: 336 Gbit/s

S5720S-28P-SI-AC



- 24 Ethernet 10/100/1000 ports, 4 Gig SFP
- Fixed AC power supply, RPS supported
- Forwarding performance: 42 Mpps
- Switching capacity: 336 Gbit/s

S5720S-28X-SI-AC
S5720S-28X-SI-DC



- 24 Ethernet 10/100/1000 ports, 4 × 10 Gig SFP+
- Fixed AC power supply, RPS supported
- Forwarding performance: 96 Mpps
- Switching capacity: 336 Gbit/s

S5720S-52P-SI-AC



- 48 Ethernet 10/100/1000 ports, 4 Gig SFP
- Fixed AC power supply, RPS supported
- Forwarding performance: 78 Mpps
- Switching capacity: 336 Gbit/s

S5720S-52X-SI-AC
S5720S-52X-SI-DC



- 48 Ethernet 10/100/1000 ports, 4 × 10 Gig SFP+
- Fixed AC power supply, RPS supported
- Forwarding performance: 132 Mpps
- Switching capacity: 336 Gbit/s

S5720-14X-PWH-SI-AC



- 8 Ethernet 10/100/1000 ports, 4 Ethernet 2.5GE/GE ports, 2 × 10 Gig SFP+
- AC power supply
- Forwarding performance: 57 Mpps
- Switching capacity: 336 Gbit/s

S5720-LI Series Switches

Product Overview

The S5720-LI is a next-generation energy-saving gigabit Ethernet switch that provides flexible GE access ports and 10GE uplink ports. Building on next-generation, high-performance hardware and the Huawei Versatile Routing Platform (VRP), the S5720-LI supports intelligent stack (iStack), flexible Ethernet networking, and diversified security control. It provides customers with a green, easy-to-manage, easy-to-expand, and cost-effective gigabit to the desktop solution.

The S5720-LI can work in cloud-based management mode or traditional management based on requirements. In cloud-based management mode, the S5720-LI can be monitored, managed, and configured on the Huawei cloud management platform (Agile Controller-Campus). A mobile O&M App is also supported.

Product Appearance

S5720-12TP-LI-AC



- 8 × Ethernet 10/100/1000 Base-T ports, 2 × Gig SFP ports, 2 × Combo Gig ports
- AC power supply
- Forwarding performance: 27 Mpps
- Switching capacity: 336 Gbit/s

S5720-12TP-PWR-LI-AC



- 8 × Ethernet 10/100/1000 Base-T ports, 2 × Gig SFP ports, 2 × Combo Gig ports
- AC power supply
- PoE+
- Forwarding performance: 27 Mpps
- Switching capacity: 336 Gbit/s

S5720-28P-LI-AC



- 24 × Ethernet 10/100/1000 Base-T ports, 4 × Gig SFP ports
- AC power supply
- Forwarding performance: 51 Mpps
- Switching capacity: 336 Gbit/s

S5720-28P-PWR-LI-AC



- 24 × Ethernet 10/100/1000 Base-T ports, 4 × Gig SFP ports
- AC power supply
- PoE+
- Forwarding performance: 51 Mpps
- Switching capacity: 336 Gbit/s

S5720-52P-LI-AC



- 48 × Ethernet 10/100/1000 Base-T ports, 4 × Gig SFP ports
- AC power supply
- Forwarding performance: 87 Mpps
- Switching capacity: 336 Gbit/s

S5720-52P-PWR-LI-AC



- 48 × Ethernet 10/100/1000 Base-T ports, 4 × Gig SFP ports
- AC power supply
- PoE+
- Forwarding performance: 87 Mpps
- Switching capacity: 336 Gbit/s

S5720-28X-LI-AC
S5720-28X-LI-DC



- 24 × Ethernet 10/100/1000 Base-T ports, 4 × 10 Gig SFP+ ports
- Fixed AC/DC power supply, RPS supported
- Forwarding performance: 108 Mpps
- Switching capacity: 336 Gbit/s

S5720-28X-PWR-LI-AC



- 24 × Ethernet 10/100/1000 Base-T ports, 4 × 10 Gig SFP+ ports
- Fixed AC power supply, RPS supported
- PoE+
- Forwarding performance: 108 Mpps
- Switching capacity: 336 Gbit/s

S5720-28X-LI-24S-AC



S5720-28X-LI-24S-DC



- 16 × Gig SFP ports, 8 × Combo Gig ports, 4 × 10 Gig SFP+ ports
- Fixed AC/DC power supply, RPS supported
- Forwarding performance: 108 Mpps
- Switching capacity: 336 Gbit/s

S5720-52X-LI-AC
S5720-52X-LI-DC



- 48 × Ethernet 10/100/1000 Base-T ports, 4 × 10 Gig SFP+ ports
- Fixed AC/DC power supply, RPS supported
- Forwarding performance: 144 Mpps
- Switching capacity: 336 Gbit/s

S5720-52X-PWR-LI-AC



- 48 × Ethernet 10/100/1000 Base-T ports, 4 × 10 Gig SFP+ ports
- Fixed AC power supply, RPS supported
- PoE+
- Forwarding performance: 144 Mpps
- Switching capacity: 336 Gbit/s

S5720-28TP-LI-AC



- 24 × Ethernet 10/100/1000 Base-T ports, 2 × Gig SFP ports, 2 × Combo Gig ports
- AC power supply
- Forwarding performance: 51 Mpps
- Switching capacity: 336 Gbit/s

S5720-28TP-PWR-LI-AC



- 24 × Ethernet 10/100/1000 Base-T ports, 2 × Gig SFP ports, 2 × Combo Gig ports
- AC power supply
- PoE+
- Forwarding performance: 51 Mpps
- Switching capacity: 336 Gbit/s

S5720-28TP-PWR-LI-ACL



- 8 × Ethernet 10/100/1000 PoE+ ports, 16 × Ethernet 10/100/1000 Base-T ports, 2 × Gig SFP ports, 2 × Combo Gig ports
- AC power supply
- PoE+
- Forwarding performance: 51 Mpps
- Switching capacity: 336 Gbit/s

S5720-16X-PWH-LI-AC



- 12 × Ethernet 10/100/1000 PoE++ ports, 2 × Ethernet 10/100/1000 Base-T ports, 2 × 10 Gig SFP+ ports
- AC power supply
- PoE++
- Forwarding performance: 51 Mpps
- Switching capacity: 336 Gbit/s

S5720-28X-PWH-LI-AC



- 16 × Ethernet 10/100/1000 Base-T ports, 8 × 100M/1G/2.5G Base-T ports, 4 × 10 Gig SFP+ ports
- Fixed AC power supply, RPS supported
- PoE++
- Forwarding performance: 126 Mpps
- Switching capacity: 336 Gbit/s

S5720S-LI Series Switches

Product Overview

The S5720S-LI is a next-generation energy-saving gigabit Ethernet switch that provides flexible GE access ports and 10GE uplink ports. Building on next-generation, high-performance hardware and the Huawei Versatile Routing Platform (VRP), the S5720S-LI supports intelligent stack (iStack), flexible Ethernet networking, and diversified security control. It provides customers with a green, easy-to-manage, easy-to-expand, and cost-effective gigabit to the desktop solution. In addition, Huawei customizes specialized models to meet customer requirements to suit special scenarios.

The models with front power sockets can be installed in the 300 mm deep cabinet. They can be maintained through the front panel, saving space in small equipment rooms.

The models that use a fan-free design reduce power consumption and noise.

The S5720S-LI can work in cloud-based management mode or traditional management based on requirements. In cloud-based management mode, the S5720S-LI can be monitored, managed, and configured on the Huawei cloud management platform (Agile Controller-Campus). A mobile O&M App is also supported.

As part of Huawei's channel distribution products, the S5720S-LI is only sold in Russia, Switzerland, Hong Kong, Dubai, Turkey, Malaysia, Saudi Arabia, Singapore, Qatar, and New Zealand.

Product Appearance

S5720S-12TP-LI-AC



- 8 × Ethernet 10/100/1000Base-T ports, 2 × Gig SFP ports, 2 × Combo Gig ports
- AC power supply
- Forwarding performance: 27Mpps
- Switching Capacity: 336Gbit/s

S5720S-12TP-PWR-LI-AC



- 8 × Ethernet 10/100/1000Base-T ports, 2 × Gig SFP ports, 2 × Combo Gig ports
- AC power supply
- PoE+
- Forwarding performance: 27Mpps
- Switching Capacity: 336Gbit/s

S5720S-28P-LI-AC



- 24 × Ethernet 10/100/1000Base-T ports, 4 × Gig SFP ports
- AC power supply
- Forwarding performance: 51Mpps
- Switching Capacity: 336Gbit/s

S5720S-28P-PWR-LI-AC



- 24 × Ethernet 10/100/1000Base-T ports, 4 × Gig SFP ports
- AC power supply
- PoE+
- Forwarding performance: 51Mpps
- Switching Capacity: 336Gbit/s

S5720S-52P-LI-AC



- 48 × Ethernet 10/100/1000Base-T ports, 4 × Gig SFP ports
- AC power supply
- Forwarding performance: 87Mpps
- Switching Capacity: 336Gbit/s

S5720S-52P-PWR-LI-AC



- 48 × Ethernet 10/100/1000Base-T ports, 4 × Gig SFP ports
- AC power supply
- PoE+
- Forwarding performance: 87Mpps
- Switching Capacity: 336Gbit/s

S5720S-28X-LI-AC



- 24 × Ethernet 10/100/1000Base-T ports, 4 × 10 Gig SFP+ ports
- AC power supply
- Forwarding performance: 108Mpps
- Switching Capacity: 336Gbit/s

S5720S-28X-PWR-LI-AC



- 24 × Ethernet 10/100/1000Base-T ports, 4 × 10 Gig SFP+ ports
- AC power supply
- PoE+
- Forwarding performance: 108Mpps
- Switching Capacity: 336Gbit/s

S5720S-28X-LI-24S-AC



- 16 × Gig SFP ports, 8 × Combo Gig ports, 4 × 10 Gig SFP+ ports
- Fixed AC power supply, RPS supported
- Forwarding performance: 108Mpps
- Switching Capacity: 336Gbit/s

S5720S-52X-LI-AC



- 48 × Ethernet 10/100/1000Base-T ports, 4 × 10 Gig SFP+ ports
- AC power supply
- Forwarding performance: 144Mpps
- Switching Capacity: 336Gbit/s

S5720S-52X-PWR-LI-AC



- 48 × Ethernet 10/100/1000Base-T ports, 4 × 10 Gig SFP+ ports
- AC power supply
- PoE+
- Forwarding performance: 144Mpps
- Switching Capacity: 336Gbit/s

S5720S-28TP-PWR-LI-ACL



- 8 × Ethernet 10/100/1000 PoE+ ports, 16 × Ethernet 10/100/1000Base-T ports, 2 × Gig SFP ports, 2 × Combo Gig ports
- AC power supply
- PoE+
- Forwarding performance: 51Mpps
- Switching Capacity: 336Gbit/s

S3700 Series Switches

Product Overview

The S3700 series enterprise switches (S3700s) are next-generation energy-saving Layer 3 switches. The S3700 utilizes cutting-edge hardware and Huawei Versatile Routing Platform (VRP) software to provide high-performance access and aggregation to an enterprise campus network. The S3700 is easy to install and maintain. With its flexible VLAN deployment, PoE capabilities, comprehensive routing functions, and capability to migrate to an IPv6 network, the S3700 helps enterprise customers build next-generation IT networks. In addition, the S3700 uses advanced reliability technologies such as stacking, VRRP, and RRPP, enhancing network reliability and diversity.

The S3700 is a box device that is 1 U high. It is available in a standard version (SI), an enhanced version (EI). The SI version provides Layer 2 functions and basic Layer 3 functions. The EI version supports complex routing protocols and provides more functions than the SI version offers.

Product Appearance

S3700-28TP-SI-AC



S3700-28TP-EI-AC



S3700-28TP-EI-DC



- Twenty-four 10/100Base-TX ports, two 1000Base-X SFP ports, and two gigabit combo ports (10/100/1000Base-T or 100/1000Base-X)
- AC and DC power supply for the EI version; AC power supply for the SI version
- Forwarding performance: 9.6 Mpps
- Switching Capacity: 64Gbps

S3700-28TP-EI-MC-AC



- Twenty-four 10/100Base-TX ports, two 1000Base-X SFP ports, two monitor ports, and two gigabit combo ports (10/100/1000Base-T or 100/1000Base-X)
- AC power supply
- Forwarding performance: 9.6 Mpps
- Switching Capacity: 64Gbps

S3700-28TP-PWR-SI



S3700-28TP-PWR-EI



- Twenty-four 10/100Base-TX ports, two 1000Base-X SFP ports, and two gigabit combo ports (10/100/1000Base-T or 100/1000Base-X)
- AC power supply
- PoE+
- Forwarding performance: 9.6 Mpps
- Switching Capacity: 64Gbps

S3700-28TP-EI-24S-AC



- Twenty-four 100Base-FX SFP ports, two 1000Base-X SFP ports, and two gigabit combo ports (10/100/1000Base-T or 100/1000Base-X)
- AC power supply
- Forwarding performance: 9.6 Mpps
- Switching Capacity: 64Gbps

S3700-52P-SI-AC



S3700-52P-EI-AC



- Forty-eight 10/100Base-TX ports, two 100/1000Base-X SFP ports, and two 1000Base-X SFP ports
- AC power supply
- Forwarding performance: 13.2 Mpps
- Switching Capacity: 64Gbps

S3700-52P-PWR-SI



S3700-52P-PWR-EI



- Forty-eight 10/100Base-TX ports, two 100/1000Base-X SFP ports, and two 1000Base-X SFP ports
- AC power supply
- PoE+
- Forwarding performance: 13.2 Mpps
- Switching Capacity: 64Gbps

S3700-52P-EI-48S-AC



- Forty-eight 100Base-FX SFP ports, two 100/1000Base-X SFP ports, and two 1000Base-X SFP ports
- AC power supply
- Forwarding performance: 13.2 Mpps
- Switching Capacity: 64Gbps

S3700-52P-EI-24S-AC



- Twenty-four 10/100Base-TX ports, twenty-four 100Base-FX SFP ports, two 100/1000Base-X SFP ports, and two 1000Base-X SFP ports
- AC power supply
- Forwarding performance: 13.2 Mpps
- Switching Capacity: 64Gbps

S2700 Series Switches

Product Overview

The S2700 series enterprise switches (S2700 for short), including S2710, S2720, S2750, and S2751 series, are next-generation energy-saving intelligent 100M Ethernet switches developed by Huawei. The S2700 utilizes cutting-edge switching technologies and Huawei Versatile Routing Platform (VRP) software to meet the demand for multi-service provisioning and access on Ethernet networks. It is easy to install and maintain. With its flexible network deployment, comprehensive security and quality of service (QoS) policies, and energy-saving technologies, the S2700 helps enterprise customers build next-generation IT networks.

The S2700 is a box device that is 1 U (44.45 mm or 1.75 in.) high. It is available in a standard version (SI) or an enhanced version (EI).

Product Appearance

S2700-9TP-SI-AC



S2700-9TP-EI-AC



S2700-9TP-EI-DC



-
- 8 Ethernet 10/100 ports, 1 dual-purpose 10/100/1000 or SFP
 - AC and DC power supply for the EI version; AC power supply for the SI version
 - Forwarding performance: 2.7 Mpps
 - Switching Capacity: 32Gbps

S2700-9TP-PWR-EI



-
- 8 Ethernet 10/100 ports, 1 dual-purpose 10/100/1000 or SFP
 - AC power supply
 - PoE+
 - Forwarding performance: 2.7 Mpps
 - Switching Capacity: 32Gbps
-

S2700-18TP-SI-AC



S2700-18TP-EI-AC



- 16 Ethernet 10/100 ports, 2 dual-purpose 10/100/1000 or SFP
- AC power supply
- Forwarding performance: 5.4 Mpps
- Switching Capacity: 32Gbps

S2700-26TP-SI-AC



S2700-26TP-EI-AC



S2700-26TP-EI-DC



- 24 Ethernet 10/100 ports, 2 dual-purpose 10/100/1000 or SFP
- AC and DC power supply for the EI version; AC power supply for the SI version
- Forwarding performance: 6.6 Mpps
- Switching Capacity: 32Gbps

S2700-26TP-PWR-EI



- 24 Ethernet 10/100 ports, 2 dual-purpose 10/100/1000 or SFP
- AC power supply
- PoE+
- Forwarding performance: 6.6 Mpps
- Switching Capacity: 32Gbps

S2710-52P-SI-AC



- 48 Ethernet 10/100 ports, 4 Gig SFP
- AC power supply
- Forwarding performance: 13.2 Mpps
- Switching Capacity: 32Gbps

S2700-52P-EI-AC



- 48 Ethernet 10/100 ports, 4 Gig SFP
- AC and DC power supply
- Forwarding performance: 13.2 Mpps
- Switching Capacity: 32Gbps

S2700-52P-PWR-EI



- 48 Ethernet 10/100 ports, 4 Gig SFP
- AC power supply
- PoE+
- Forwarding performance: 13.2 Mpps
- Switching Capacity: 32Gbps

S2750-20TP-PWR-EI-AC



- 16 Ethernet 10/100 ports, 2 Gig SFP and 2 dual-purpose 10/100/1000 or SFP
- AC power supply
- PoE+
- Forwarding performance: 8.4 Mpps
- Switching Capacity: 64Gbps

S2750-28TP-EI-AC



- 24 Ethernet 10/100 ports, 2 Gig SFP and 2 dual-purpose 10/100/1000 or SFP
- AC power supply
- Forwarding performance: 9.6 Mpps
- Switching Capacity: 64Gbps

S2750-28TP-PWR-EI-AC



- 24 Ethernet 10/100 ports, 2 Gig SFP and 2 dual-purpose 10/100/1000 or SFP
- AC power supply
- PoE+
- Forwarding performance: 9.6 Mpps
- Switching Capacity: 64Gbps

S2751-28TP-PWR-EI-AC



- 24 Ethernet 10/100 ports, 2 Gig SFP and 2 dual-purpose 10/100/1000 or SFP
- AC power supply
- PoE+
- Forwarding performance: 9.6 Mpps
- Switching Capacity: 64Gbps

S2720-28TP-EI-AC



- 24 Ethernet 10/100 ports, 2 Gig SFP and 2 dual-purpose 10/100/1000 or SFP
- AC power supply
- Forwarding performance: 9.6 Mpps
- Switching Capacity: 12.8Gbps

S1700 Series Switches

Product Overview

The S1700 series enterprise switches (S1700s) are next-generation energy-saving Ethernet access switches. The S1700 uses high-performance hardware, which offers a wide array of features to help customers build secure, reliable, high-performance networks. The S1700 is easy to install and maintain, and is ideal for small-size and medium-size enterprises, Internet cafes, hotels, and schools.

The S1700 consists of unmanaged switches, Web/SNMP-based switches, and a web-managed switch:

- Unmanaged switches include the S1700-24-AC, S1700-52R-2T2P-AC, S1724G, S1700-24GR and S1700-16G.
- The web-managed switches include the S1728GWR-4P, S1720-10GW-2P, S1720-10GW-PWR-2P, S1720-28GWR-4P, S1720-28GWR-4X, S1720-28GWR-PWR-4P, S1720-28GWR-PWR-4X, S1720-52GWR-4P, S1720-52GWR-4X, S1720-52GWR-PWR-4P, S1720-52GWR-PWR-4X, S1720-28GWR-PWR-4TP.
- Web/SNMP-based switches include the S1700-28FR-2T2P-AC, S1700-28GFR-4P-AC, S1700-52FR-2T2P-AC, S1700-52GFR-4P-AC, S1720-20GFR-4TP and S1720-28GFR-4TP, S1720-10GW-2P-E, S1720-10GW-PWR-2P-E, S1720-28GWR-4P-E, S1720-28GWR-4X-E, S1720-28GWR-PWR-4P-E, S1720-28GWR-PWR-4TP-E, S1720-28GWR-PWR-4X-E, S1720-52GWR-4P-E, S1720-52GWR-4X-E, S1720-52GWR-PWR-4P-E, S1720-52GWR-PWR-4X-E.

Product Appearance

S1700-24-AC



- 24 Ethernet 10/100 ports
- AC power supply
- Forwarding performance: 3.6Mpps
- Switching Capacity: 4.8Gbps

S1700-52R-2T2P-AC



- 48 Ethernet 10/100 ports, 2 Ethernet 10/100/1000 ports and 2 Gig SFP
- AC power supply
- Forwarding performance: 13.2Mpps
- Switching Capacity: 17.6Gbps

S1724G



- 24 Ethernet 10/100/1000 ports
- AC power supply
- Forwarding performance: 36Mpps
- Switching Capacity: 48Gbps

S1700-24GR



- 24 Ethernet 10/100/1000 ports
- AC power supply
- Forwarding performance: 36Mpps
- Switching Capacity: 48Gbps

S1700-16G



- 16 Ethernet 10/100/1000 ports
- AC power supply
- Forwarding performance: 24Mpps
- Switching Capacity: 32Gbps

S1728GWR-4P



- 24 Ethernet 10/100/1000 ports, 4 Gig SFP
- AC power supply
- Forwarding performance: 42Mpps
- Switching Capacity: 56Gbps

S1720-10GW-2P



- 8 Ethernet 10/100/1000 ports, 2 Gig SFP
- AC power supply
- Forwarding performance: 18Mpps
- Switching Capacity: 68Gbps

S1720-10GW-PWR-2P



- 8 Ethernet 10/100/1000 ports, 2 Gig SFP
- PoE+
- AC power supply
- Forwarding performance: 18Mpps
- Switching Capacity: 68Gbps

S1720-28GWR-4P



- 24 Ethernet 10/100/1000 ports, 4 Gig SFP
- AC power supply
- Forwarding performance: 42Mpps
- Switching Capacity: 68Gbps

S1720-28GWR-4X



- 24 Ethernet 10/100/1000 ports, 4 × 10 Gig SFP+
- AC power supply
- Forwarding performance: 96Mpps
- Switching Capacity: 168Gbps

S1720-28GWR-PWR-4P



- 24 Ethernet 10/100/1000 ports, 4 Gig SFP
- PoE+
- AC power supply
- Forwarding performance: 42Mpps
- Switching Capacity: 68Gbps

S1720-28GWR-PWR-4TP



- 24 Ethernet 10/100/1000, 2 Gig SFP and 2 × Combo Gig ports
- PoE+
- AC power supply
- Forwarding performance: 42Mpps
- Switching Capacity: 68Gbps

S1720-28GWR-PWR-4X



- 24 Ethernet 10/100/1000 ports, 4 × 10 Gig SFP+
- PoE+
- AC power supply
- Forwarding performance: 96Mpps
- Switching Capacity: 168Gbps

S1720-52GWR-4P



- 48 Ethernet 10/100/1000 ports, 4 Gig SFP
- AC power supply
- Forwarding performance: 78Mpps
- Switching Capacity: 336Gbps

S1720-52GWR-4X



- 48 Ethernet 10/100/1000 ports, 4 × 10 Gig SFP+
- AC power supply
- Forwarding performance: 132Mpps
- Switching Capacity: 336Gbps

S1720-52GWR-PWR-4P



- 48 Ethernet 10/100/1000 ports,4 Gig SFP
- PoE+
- AC power supply
- Forwarding performance: 78Mpps
- Switching Capacity: 336Gbps

S1720-52GWR-PWR-4X



- 48 Ethernet 10/100/1000 ports,4 × 10 Gig SFP+
- PoE+
- AC power supply
- Forwarding performance: 132Mpps
- Switching Capacity: 336Gbps

S1700-28FR-2T2P-AC



- 24 Ethernet 10/100 ports, 2 Ethernet 10/100/1000 ports and 2 Gig SFP
- AC power supply
- Forwarding performance: 9.6Mpps
- Switching Capacity: 12.8Gbps

S1700-52FR-2T2P-AC



- 48 Ethernet 10/100 ports, 2 Ethernet 10/100/1000 ports and 2 Gig SFP
- AC power supply
- Forwarding performance: 13.2Mpps
- Switching Capacity: 17.6Gbps

S1700-28GFR-4P-AC



- 24 Ethernet 10/100/1000 ports, 4 Gig SFP
- AC power supply
- Forwarding performance: 42Mpps
- Switching Capacity: 56Gbps

S1700-52GFR-4P-AC



- 48 Ethernet 10/100/1000 ports,4 Gig SFP
- AC power supply
- Forwarding performance: 78Mpps
- Switching Capacity: 104Gbps

S1720-20GFR-4TP



- 16 Ethernet 10/100/1000 ports, 2 Gig SFP ports, 2 × Combo Gig ports
- AC power supply
- Forwarding performance: 30Mpps
- Switching Capacity: 128Gbps

S1720-28GFR-4TP



- 24 Ethernet 10/100/1000 ports, 2 Gig SFP ports, 2 × Combo Gig ports
- AC power supply
- Forwarding performance: 42Mpps
- Switching Capacity: 128Gbps

S1720-10GW-2P-E



- 8 Ethernet 10/100/1000 ports, 2 Gig SFP
- AC power supply
- Forwarding performance: 15Mpps
- Switching Capacity: 68Gbps

S1720-10GW-PWR-2P-E



- 8 Ethernet 10/100/1000 ports, 2 Gig SFP
- PoE+
- AC power supply
- Forwarding performance: 15Mpps
- Switching Capacity: 68Gbps

S1720-28GWR-4P-E



- 24 Ethernet 10/100/1000 ports, 4 Gig SFP
- AC power supply
- Forwarding performance: 42Mpps
- Switching Capacity: 68Gbps

S1720-28GWR-4X-E



- 24 Ethernet 10/100/1000 ports, 4 × 10 Gig SFP+
- AC power supply
- Forwarding performance: 96Mpps
- Switching Capacity: 168Gbps

S1720-28GWR-PWR-4P-E



- 24 Ethernet 10/100/1000 ports, 4 Gig SFP
- PoE+
- AC power supply
- Forwarding performance: 42Mpps
- Switching Capacity: 68Gbps

S1720-28GWR-PWR-4TP-E



- 24 Ethernet 10/100/1000,2 Gig SFP and 2 × Combo Gig ports
- 8-port PoE+
- AC power supply
- Forwarding performance: 42Mpps
- Switching Capacity: 68Gbps

S1720-28GWR-PWR-4X-E



- 24 Ethernet 10/100/1000 ports,4 × 10 Gig SFP+
- PoE+
- AC power supply
- Forwarding performance: 96Mpps
- Switching Capacity: 168Gbps

S1720-52GWR-4P-E



- 48 Ethernet 10/100/1000 ports,4 Gig SFP
- AC power supply
- Forwarding performance: 78Mpps
- Switching Capacity: 336Gbps

S1720-52GWR-4X-E



- 48 Ethernet 10/100/1000 ports,4 × 10 Gig SFP+
- AC power supply
- Forwarding performance: 132Mpps
- Switching Capacity: 336Gbps

S1720-52GWR-PWR-4P-E



- 48 Ethernet 10/100/1000 ports,4 Gig SFP
- PoE+
- AC power supply
- Forwarding performance: 78Mpps
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S1720-52GWR-PWR-4X-E



- 48 Ethernet 10/100/1000 ports,4 × 10 Gig SFP+
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3

WLAN 802.11ac Series AP Products

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Overview

As the IEEE 802.11ac Wave 1 and Wave 2 standards have been released, Wi-Fi is declared to embrace the gigabit era, providing choices for customers who require better performance, higher-bandwidth wireless access networks.

After in-depth survey and analysis on customer requirements, Huawei conducted scenario segmentation based on customers' coverage targets and STA service types, and launched 20+ AP products falling into five categories: indoor settled, indoor wall plate, agile distributed, rail transportation, and outdoor. Such a wide assortment of AP products will support wireless network deployment and coverage in various service scenarios.

Indoor Settled AP

Wave 2 AP: AP7050DN-E



- Applicable to indoor coverage scenarios such as universities and large-scale campuses, supporting convergence with LTE Pico base stations.
- 802.11ac Wave 2 and MU-MIMO (4SU-4MU) technology, delivering services simultaneously on 2.4G and 5G radios; 800 Mbit/s at 2.4 GHz; 1.73 Gbit/s at 5 GHz; and 2.53 Gbit/s for the device.
- 2.5GE Ethernet uplink interfaces to improve the service load capability.
- UPoE and 48 V DC power supply; PoE out to supply power to other devices (such as Pico base stations).
- 3G/LTE co-site filtering.
- Cloud-managed

Wave 2 AP: AP7050DE



- Applicable to mobile office, high-density coverage, elementary education, and higher education scenarios.
- 802.11ac Wave 2 and MU-MIMO (4SU-4MU) technology, delivering services simultaneously on 2.4G and 5G radios; 800 Mbit/s at 2.4 GHz; 1.73 Gbit/s at 5 GHz; and 2.53 Gbit/s for the device.
- Smart antenna array technology enables targeted signal coverage for mobile terminals, reduces interferences, and improves signal quality. Additionally, it implements millisecond-level switchover as terminals move.
- Built-in Bluetooth, which collaborates with eSight Network to accurately locate Bluetooth terminals.
- Dual GE ports, supporting data backup.
- Cloud-managed

Wave 2 AP: AP6050DN&AP6150DN



- Applicable to medium- to large-scale scenarios such as mobile office, high-density coverage, elementary education, and higher education.
- 802.11ac Wave 2 and MU-MIMO (4SU-3MU) technology, delivering services simultaneously on 2.4G and 5G radios; 800 Mbit/s at 2.4 GHz; 1.73 Gbit/s at 5 GHz; and 2.53 Gbit/s for the device.
- Dual GE ports, supporting data backup.
- Cloud-managed

Wave 2 AP: AP4050DN-E



- Applicable to scenarios including shopping malls, supermarkets, healthcare, warehousing, manufacturing, and logistics.
- 802.11ac Wave 2 and MU-MIMO (2SU-2MU) technology, delivering services simultaneously on 2.4G and 5G radios; 400 Mbit/s at 2.4 GHz; 867 Mbit/s at 5 GHz; and 1.267 Gbit/s for the device.
- Built-in Bluetooth, which collaborates with eSight Network to accurately locate Bluetooth terminals.
- 3 IoT module slots, allowing for flexible IoT application extension.
- PoE out function, supplying power to other APs or devices.
- Dual GE ports, supporting data backup.
- Cloud-managed

Wave 2 AP: AP4050DN-HD



- Applicable to high-density scenarios such as indoor stadiums, auditoriums, shopping malls, and supermarkets.
- 802.11ac Wave 2 and MU-MIMO (2SU-2MU) technology, delivering services simultaneously on 2.4G and 5G radios; 400 Mbit/s at 2.4 GHz; 867 Mbit/s at 5 GHz; and 1.267 Gbit/s for the device.
- Built-in smart directional high-density antennas, reducing inter-AP interference and saving construction costs.
- PoE out function, supplying power to other APs or devices.
- Dual GE ports, supporting data backup.
- Cloud-managed

Wave2 AP: AP4050DN&AP4051DN



AP4050DN



AP4051DN

- Applicable to commercial chains, medical, warehousing, manufacturing, and logistics environments
- 802.11ac Wave 2 standards compliance, MU-MIMO (2SU-2MU), delivering services simultaneously on 2.4G and 5G radios; 400 Mbit/s at 2.4 GHz; 867 Mbit/s at 5 GHz; and 1.267 Gbit/s for the device.
- AP40501DN: Dual GE ports, supporting data backup
- USB interface used for external power supply and storage.

Wave 1 AP: AP7030DE



- Recommended for use in high-density scenarios, including business and exhibition centers, stadiums, and other large venues.
- 3 x 3 MIMO with three spatial streams; 600 Mbit/s at 2.4 GHz; 1.3 Gbit/s at 5 GHz; and 1.9 Gbit/s for the device.
- Smart antenna arrays, which can adjust the radiation direction and power accordingly as wireless terminals move.

Wave 1 AP: AP5030DN&AP5130DN



AP5030DN



AP5130DN

- Recommended for use in enterprise offices, airports and stations, digital trains, and stadiums.
- 3 x 3 MIMO with three spatial streams; 450 Mbit/s at 2.4 GHz; 1.3 Gbit/s at 5 GHz; and 1.75 Gbit/s for the device.

Wave 1 AP: AP4030TN



- Applicable to scenarios including elementary education electronic classrooms, high-density scenarios, shopping malls, and supermarkets.
- 1 x 5G + 2 x 2.4G/5G radios, which can support wireless access at a rate of 867 Mbit/s + 300 Mbit/s + 300 Mbit/s or 867 Mbit/s + 867 Mbit/s + 300 Mbit/s. The maximum rate of the AP reaches up to 2 Gbit/s.
- Software-defined radio function, implementing flexible working frequency switchover from 2.4 GHz to 5 GHz and service adjustment (such as wireless coverage, positioning, security, and bridge) adjustment.
- Dual GE ports, supporting data backup.

Wave 1 AP: AP4030DN&AP4130DN



AP4130DN

- Applicable to scenarios where buildings have simple structures, small areas, and dense users, such as small- and medium-sized enterprises, intelligent buildings, healthcare, and shopping malls.
- 2 x 2 MIMO with two spatial streams; 300 Mbit/s at 2.4 GHz; 867 Mbit/s at 5 GHz; and 1.167 Gbit/s for the device.

Indoor Wall Plate AP

Wave2 AP: AP2050DN



- Recommended for environments with densely distributed small rooms, such as hotels, dormitories, hospitals, and offices.
- Compliance with 802.11ac Wave 2, MU-MIMO (2SU-2MU); 400 Mbit/s at 2.4 GHz; 867 Mbit/s at 5 GHz; and 1.267 Gbit/s for the device.
- One GE uplink port, four GE downlink ports for Ethernet connections or wired terminal connections, and two RJ45 pass-through phone ports (compatible with RJ11).
- Various installation modes for easy deployment, including plate-mounting, and desk-mounting modes.
- USB port for storage and external power supply.
- Cloud-managed

Wave2 AP: AP2050DN-E



- Recommended for environments with densely distributed small rooms, such as hotels, dormitories, hospitals, and offices.
- Compliance with 802.11ac Wave 2, MU-MIMO (2SU-2MU); 400 Mbit/s at 2.4 GHz; 867 Mbit/s at 5 GHz; and 1.267 Gbit/s for the device.
- One GE uplink port, four GE downlink ports for Ethernet connections or wired terminal connections, and two RJ45 pass-through phone ports (compatible with RJ11).
- Built-in Bluetooth, working with eSight Network to implement Bluetooth device location.
- PoE OUT, supplying power for STAs such as IP phones.
- Various installation modes for easy deployment, including plate-mounting, and desk-mounting modes.
- Cloud-managed

Wave 1 AP: AP2030DN



- Recommended for environments with densely distributed small rooms, such as hotels, dormitories, hospitals, and offices.
- 2 x 2 MIMO with two spatial streams; 300 Mbit/s at 2.4 GHz; 867 Mbit/s at 5 GHz; and 1.167 Gbit/s for the device.
- Provides one GE port and four 100M ports for Ethernet connections or wired terminal connections, and two phone ports for phone connections.
- Has a compact design, with built-in antenna, hidden indicator, and sliding panel. The AP can be installed in an 86 mm junction box which makes the AP well blend into surroundings.

Agile Distributed Central AP and RU

Central AP: AD9430DN-24&
AD9430DN-12



- Manages and configures remote units. The AD9430DN-24&AD9430DN-12 can be flexibly deployed in the equipment rooms, weak-current wells, and corridors, to cover scenarios with a high density of rooms and complex wall structure, such as schools, hotels, hospitals, and office conference rooms.
- An AD9430DN-24 central AP provides 4 uplink combo interfaces and 24 downlink GE ports supporting standard PoE power supply, and supports direct management over 24 remote units, which can be extended through the switch to a maximum of 48 remote units. The AD9430DN-24 supports a maximum of 1000 concurrent users and association from a maximum of 4000 users.
- An AD9430DN-12 central AP provides 2 uplink GE ports and 12 downlink GE ports, and supports direct management over 12 remote units, which can be extended through the switch to a maximum of 24 remote units. The AD9430DN-12 supports a maximum of 512 concurrent users and association from a maximum of 2000 users.
- Cloud-managed

Remote Unit: R240D&R230D



R240D



R230D

- Managed by the central AP, remote units can be directly installed in rooms to cover scenarios with a high density of rooms and complex wall structure, such as schools, hotels, hospitals, and office conference rooms.
- 2 x 2 MIMO with two spatial streams; 300 Mbit/s at 2.4 GHz; 867 Mbit/s at 5 GHz; and 1.167 Gbit/s for the device.
- An R240D remote unit provides one GE port and four 100M ports for Ethernet connections or wired terminal connections, and one phone port for phone connections, and supports ceiling mounting, wall mounting, and wall plate mounting.
- An R230D remote unit provides one 100M port, and supports ceiling mounting, wall mounting, and wall plate mounting.

Remote Unit: R250D



- Managed by the central AP, remote units can be directly installed in rooms to cover scenarios with a high density of rooms and complex wall structure, such as schools, hotels, hospitals, and office conference rooms.
 - Compliance with 802.11ac Wave 2, MU-MIMO (2SU-2MU); 400 Mbit/s at 2.4 GHz; 867 Mbit/s at 5 GHz; and 1.267 Gbit/s for the device.
 - One GE uplink port, one GE downlink ports for Ethernet connections or wired terminal connections.
 - Supports PoE power supply in compliance with IEEE 802.3af/at.
 - Various installation modes for easy deployment, including ceiling-mounting, wall-mounting, plate-mounting modes.
-

Remote Unit: R250D-E



- Managed by the central AP, remote units can be directly installed in rooms to cover scenarios with a high density of rooms and complex wall structure, such as schools, hotels, hospitals, and office conference rooms.
- Compliance with 802.11ac Wave 2, MU-MIMO (2SU-2MU); 400 Mbit/s at 2.4 GHz; 867 Mbit/s at 5 GHz; and 1.267 Gbit/s for the device.
- One GE uplink port, four GE downlink ports for Ethernet connections or wired terminal connections.
- Built-in Bluetooth, working with eSight Network to implement Bluetooth device location.
- Supports PoE power supply in compliance with IEEE 802.3af/ at and power supply of -48 V DC.
- PoE OUT, supplying power for STAs such as IP phones.
- Various installation modes for easy deployment, including plate-mounting, and desk-mounting modes.

Rail Transportation AP

Wave 1 AP: AP9132DN&AP9131DN



AP9132DN



AP9131DN

- Serves as the vehicle-mounted AP, trackside AP, or compartment AP and applies to transportation industry train-ground backhaul and compartment coverage scenarios.
- 802.11ac Wave 1, delivering services simultaneously on 2.4G and 5G radios; 450 Mbit/s at 2.4 GHz; 1.3 Gbit/s at 5 GHz; and 1.75 Gbit/s for the device.
- External dual-band antenna (2.4 GHz and 5 GHz), which can adjust the radiation direction to ensure the coverage.
- Soft switchover technology that establishes the link and then conducts the switchover, implementing fast link switching in train-to-ground communication and minimizing packet loss during the switchover.
- High-level material, overall heat dissipation design, -40 °C to +65 °C wide operating temperature range, and industrial M12 shockproof connectors for power supply Ethernet ports that meet shockproof, waterproof, and fireproof requirements, supporting vehicle-mounted deployment required by the rail transportation industry.
- Fast link switching in train-to-ground communication, controlling the switchover time within 50 ms and providing a stable and high-speed train-ground backhaul network.
- AP9132DN: supports the splitting function, that is, compartments are covered at 2.4 GHz and bridged at 5 GHz, which are flexible and easy to deploy.

Outdoor AP

Wave2 AP: AP8050DN/8150DN



AP8050DN



AP8150DN

- recommended for use in coverage scenarios (for example, high-density stadiums, squares, pedestrian streets, and amusement parks) and bridging scenarios (for example, wireless harbors, data backhaul, video surveillance, and train-to-ground backhaul).
- 802.11ac wave 2 standards compliance, MU-MIMO (2SU-2MU), delivering services simultaneously on 2.4G and 5G radios; 400 Mbit/s at 2.4 GHz; 867 Mbit/s at 5 GHz; and 1.267 Gbit/s for the device
- PoE power supply in compliance with IEEE 802.3at, making APs easy to install.
- Uplink optical port and dual GE Ethernet ports, supporting data backup and PoE power supply.
- The AP8150DN can switch from the 2.4 GHz frequency band to the 5 GHz frequency band. When working at dual 5 GHz frequency bands simultaneously, the AP provides a system rate of 1.73 Gbit/s and can function as a relay AP to implement wireless bridging functions, which reduces costs and improves device installation efficiency.
- Built-in 5 kA surge protectors; no additional surge protection device required. This design simplifies installation and saves costs.
- Use a metal shell and heat dissipation design, adapt to a wide temperature range from -40° C to +65° C, provide 6 kA or 6 kV surge protection capability on an Ethernet interface, and IP67 protection level, meeting industry-level use requirements.

Wave 1 AP: AP8030DN&AP8130DN



- Recommended for use in coverage scenarios (for example, high-density stadiums, squares, pedestrian streets, and amusement parks) and bridging scenarios (for example, wireless harbors, data backhaul, video surveillance, and vehicle-ground backhaul).
- 3 x 3 MIMO with three spatial streams; 450 Mbit/s at 2.4 GHz; 1.3 Gbit/s at 5 GHz; and 1.75 Gbit/s for the device.
- PoE power supply in compliance with IEEE 802.3at, making APs easy to install.
- Uplink optical port and dual GE Ethernet ports, supporting data backup and PoE power supply.
- AP8130DN: uses external antennas. Antennas can be configured, and deployment locations are determined based on networking requirements.
- AP8030DN: uses built-in antennas with 10 dBi gain at 2.4 GHz and 10 dBi gain at 5 GHz (horizontal: 60 degrees; vertical: 30 degrees).
- Cloud-managed

Wave 1 AP: AP8130DN-W



- Recommended for use in coverage scenarios (for example, high-density stadiums, squares, pedestrian streets, and amusement parks) and bridging scenarios (for example, wireless harbors, data backhaul, video surveillance, and vehicle-ground backhaul).
 - 3 x 3 MIMO with three spatial streams, delivers services simultaneously on two radios (one radio: 2.4 GHz/4.9 GHz/5 GHz; the other radio: 4.9 GHz/5 GHz) with a rate of 450 Mbit/s at 2.4 GHz, 1.3 Gbit/s at 5 GHz, and 1.75 Gbit/s for the device.
 - Supports wireless bridge and backhaul at 4.9 GHz.
 - Supports 2.4 GHz, 4.9 GHz, or 5 GHz on one radio and 4.9 GHz or 5 GHz on the other. When working at dual 5 GHz frequency bands simultaneously, the AP provides a system rate of 2.6 Gbit/s and can function as a relay AP to implement wireless bridging functions, which reduces costs and improves device installation efficiency.
 - Uplink optical port and dual GE Ethernet ports, supporting data backup and PoE power supply.
 - Has built-in 5 kA surge protectors, requiring no external surge protective devices. This design simplifies installation and saves costs.
-

4

Enterprise Core Router NE/ME Series Products

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Huawei Core Router NetEngine9000 Series Product

Product Overview

As the Internet enters the Cloud Era, cloud business diversification will make data traffic unpredictable, and as Over the Top (OTT) and 4K video services consume a lot of bandwidths, IP backbone networks will need greater bandwidths, more flexibility, and continuous expanding capability. Huawei's NetEngine9000 series core router (NE9000) is Huawei's flagship core router created for the Cloud Internet Era. With features that include high capacity, high stability and a green design, the NE9000 is positioned for large-scale Data Center Interconnect (DCI), super core nodes on the carrier backbone network, metro core, and core nodes on large-scale enterprise networks.

As the industry's largest Pbit core router, the NE9000 adopts Huawei's self-developed Solar series NP chips for excellent line rate forwarding performance. The NE9000 is based on the CLOS distributed multi-stage architecture with non-blocking switching technology. The NE9000 supports SDN technology and can work in SDN solutions such as SDN RR+/PCE+, SDN IP+Optical and SDN VXLAN. The NE9000 continues to innovate based on an industry-leading platform for improved QoS mechanism and carrier-class reliability to swiftly deal with the new challenges that backbone networks face in the Cloud

Product Appearance



NE9000-20 with front doors closed



NE9000-20 with front doors open



NE9000-20 back

NE9000-20 Product Specifications

Item	Description
Stand-Alone Capacity	20 Tbps, single slot 1T, expansion up to 8T
Number of Slots	30, with 20 service board slots, 2 MPU slots, and 8 SFU slots
Dimensions (H x W x D)	2200 mm x 600 mm x 800 mm (49.5 U) The NE9000 presents a single-cabinet design for a cabinet-free installation
Typical Power Consumption	0.8 W/G
Interface Type	40GE, 100GE, 10GE

NE5000E Cluster Router Product

Product Overview

NetEngine5000E cluster router (NE5000E) delivers industry-leading huge capacity, carrier-level availability and green design, which fully guarantees the network robustness, service flexibility and TCO saving for service providers. Powered advanced backplane connection design, distributed and highly scalable Versatile Routing Platform (VRP) operating system, NE5000E, a super-core routing platform, service steadily and high-efficiency at internet backbone, metro core, internet data center and Internet bearer network.

Offering the innovative and advanced solutions such as the industry-largest capacity board, back-to-back cluster system and hybrid-chassis cluster system, the NE5000E makes network configured on demand and helps customer improve earnings, as well as save TCO.

The NE5000E has two parts in hardware: Cluster Central Chassis (CCC) and Cluster Line Chassis (CLC). CLC is used to forward service flow and CCC is used to connect CLC's control plane and data plane in cluster system.

Product Appearance



Single
Chassis

Back-to-Back
Cluster System

2+8 Cluster System

Product Specifications

Attribute	Description
Throughput capability	Non-block switch fabric, support multi Chassis 2048Tbps/64 Chassis (1T)
Switching Capability	81.92Tbps/single Chassis
Slots/CLC	16 slots/single Chassis
Interface Types	GE, 10GE, 10G POS, 40GE, 40G POS, 100GE, 100G OTN, etc.
Routing protocol	IPv4 static route, OSPF, IS-IS, BGP, PIM, MSDP, MBGP

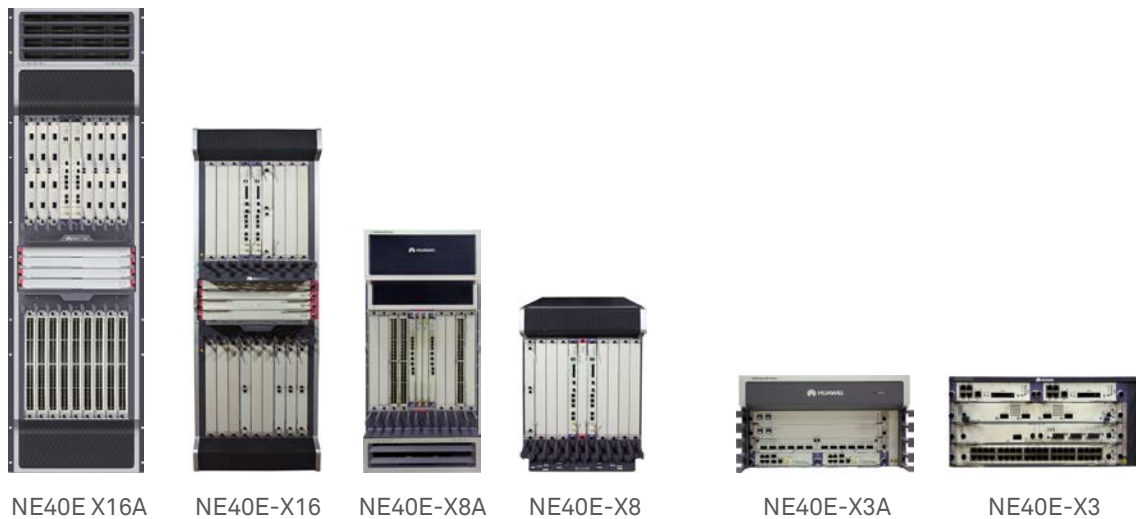
NE40E Universal Service Router Product

Product Overview

The NE40E series universal service router (USR), a high-end network product, features line-rate forwarding capability, a well designed Quality of Service (QoS) mechanism, strong service-processing capability, and excellent expansibility and are usually deployed at the edges of Internet Protocol (IP) backbone networks, IP Metropolitan Area Networks (MANs), Internet Data Centers (IDCs) networks and other large-scale IP networks. The NE40E can provide comprehensive services for enterprises, residential as universal edge device.

Based on distributed hardware forwarding and non-blocking switching technologies, the NE40E provides maximum 480G line cards to satisfy the increased demand for bandwidth.

Product Appearance



Product Specifications

Attribute	NE40E-X16A	NE40E-X16	NE40E-X8A	NE40E-X8	NE40E-X3A	NE40E-X3
Number of slots	22 slots, including 2 MPUs (1:1 backup), 4 SFUs (3+1 backup), and 16 LPUs	22 slots, including 2 MPUs (1:1 backup), 4 SFUs (3+1 backup), and 16 LPUs	12 slots, including 2 SRUs (1:1 backup), 2 SFUs (3+1 backup), and 8 LPUs	11 slots, including 2 SRUs (1:1 backup), 1 SFUs (2+1 backup), and 8 LPUs	5 slots (for 3 LPUs and 2 MPUs)	5 slots (for 3 LPUs and 2 MPUs)

Attribute	NE40E-X16A	NE40E-X16	NE40E-X8A	NE40E-X8	NE40E-X3A	NE40E-X3
Interface type	100GE/40GE		10GE- LAN /WAN			
	GE/FE		OC-192c/STM-64c POS			
	OC-48c/STM-16c POS		OC-12c/STM-4c POS			
	OC-3c/STM-1c POS		Channelized STM-4			
	Channelized OC-3/STM-1		OC-3c/STM-1c ATM			
	OC-12c/STM-4c ATM		E3/CT3			
	CE1/CT1		E1/T1			

NE20E-S Universal Service Router Product

Product Overview

NetEngine20E-S Universal Service Router (NE20E-S) series are high-end network products developed by Huawei for transportation, finance, electricity, government, education, and enterprise networks. They mainly serve as aggregation nodes on IP backbone networks, core nodes on small and medium enterprise networks, edge nodes on campus networks, and access nodes on small and medium education networks.

The NE20E-S runs on the Versatile Routing Platform (VRP) operating system and uses Huawei-developed NP chips and hardware-based forwarding and non-blocking switching technologies. The NE20E-S has the following features:

- Line-rate forwarding capabilities, carrier-class reliability, excellent scalability, a well-designed quality of service (QoS) mechanism, and strong service processing capabilities
- Powerful service access and aggregation capabilities and various features, such as Layer 2 virtual private network (L2VPN), L3VPN, multicast, multicast VPN (MVPN), Multiprotocol Label Switching (MPLS) Traffic Engineering (TE), and QoS, to ensure carrier-class service transmission reliability
- Various service features, such as Generic Routing Encapsulation (GRE), IP Security (IPSec), Network Address Translation (NAT), and NetStream
- Support for IPv6 and smooth transition from IPv4 to IPv6

The NE20E-S can be flexibly deployed at the access and aggregation layer of IP/MPLS networks and work with other NE routers to provide an all-around network solution for enterprise users, satisfying diversified service requirements in the future.

Product Appearance



NE20E-S2E



NE20E-S2F



NE20E-S4



NE20E-S8



NE20E-S16



NE20E-S8A



NE20E-S16A

Product Specifications

Item	NE20E-S2E	NE20E-S2F	NE20E-S4	NE20E-S8	NE20E-S16	NE20E-S8A	NE20E-S16A
Switching capacity	160 Gbps	320 Gbps	480 Gbps	480 Gbps	480 Gbps	480 Gbps	480 Gbps
Forwarding performance	70 Mpps	150 Mpps	180 Mpps	360 Mpps	360 Mpps	360 Mpps	360 Mpps
Number of slots	2PICs 2*10GE (SFP+) and 24*GE (SFP)	2PICs 4*10GE (SFP+) and 38*GE (SFP)	2 MPUs 1 NSP 4 PICs	2 MPUs 2 NSPs 8 PICs	2 MPUs 2 NSPs 16 PICs	2 MPUs 2 NSPs 8 PICs	2 MPUs 2 NSPs 16 PICs
Interface type	100GE/40GE/10GE/GE/FE OC-3c/STM-1c POS OC-12c/STM-4c POS Channelized OC-3/STM-1 POS OC-3c/STM-1c ATM E1/CE1						

Huawei NE08E & NE05E series Mid Service Router Product

Product Overview

Huawei NetEngine08E / NetEngine05E series is the cloud era ENP Based Mid Services Router which is to help transportation, finance, power, government, education, enterprise to build agile networks, can be flexibly applied to IP / MPLS network edge access scenarios, to meet the diverse needs of users for future business development.

NetEngine08E / NetEngine05E series is cloud service architecture design oriented, large cache to ensure the best service experience; IP pipeline firmness and flexibility, support IP soft pipes for statistical multiplexing to improve resource efficiency and IP hard pipe exclusive resources to ensure the best customer experience .

Product Appearance



NE08E-S6/6E



NE05E-S2



NE05E-SE



NE05E-SF



NE05E-SG



NE05E-SH



NE05E-SI



NE05E-SQ



NE05E-SJ



NE05E-SK



NE05E-SL



NE05E-SM

Product Specifications

Attribute	NE08E-S6E/S6	NE05E-SQ	NE05E-S2	NE05E-SN/G/H	NE05E-SM
Forwarding performance	102Mpps/37Mpps	102Mpps	18Mpps	18Mpps	6Mpps
Switching capacity	360Gbps/112Gbps	272Gbps	24Gbps	24Gbps	8Gbps
Typical power consumption	164W/181W	91.4W	68W	30W	20W
Slots	redundant MPUs 6 FICs 10GE/GE/FE/ STM-1/E1/PCM	Fixbox 4*10GE+16GE (O)+8GE(E)	1 CXP with 6GE(O)+4GE(E) and 2 FICs	Fixbox 4*GE/ FE(O)+4*GE/ FE(E)+ 4*GE/ FE Combo + (2*8E1)	1*GE(O)+ 2*GE/FE(E)+ 1*FE/GE Combo
Dimension (W × D × H)	442mm × 220mm × 88.9mm(2U)	442mm × 220mm × 44.45mm (1U)	442mm × 220mm × 44.45mm (1U)	442mm × 220mm × 44.45mm (1U)	250mm × 180mm × 52mm
Operating Temperature	-40°C to +65°C	-40°C to +65°C	-20°C to +60°C	-40°C to +65°C	-40°C to +55°C

Huawei ME60 Series Multi-Services Control Gateway

Product Overview

Huawei ME60 series Multiservice Control Gateway is perfect as service point of presence (SPOP) of IP/MPLS network, BRAS node of broadband service access, or core node of campus networks, by delivering industry-leading performance, monetization capabilities and excellent service evolution to boost customers' service development.

As a service management and offering platform with high performance, the ME60 meets various requirements for service operation mechanisms. ME60 ensures smooth and reliable running of various services. Based on the solutions with ME60, customers are able to construct a future-oriented and intelligent broadband IP network, which can greatly reduce the TCO of the network.

Product Appearance

The ME60 series includes the ME60-X16, ME60-X8 and ME60-X3:



ME60-X16



ME60-X8



ME60-X3

Product Specifications

Attribute	ME60-X16	ME60 -X8	ME60 -X3
Switching Capacity	25.2 Tbps /12.58 Tbps	12.58 Tbps /7.08Tbps	1.08 Tbps
Slots	22 slots, including 2 MPUs, 4 SFUs and 16 LPUs	11 slots, including 2 SRUs, 1 SFUs and 8 LPUs	5 slots, including 2 MPUs and 3 LPUs
Dimension (W × D × H)	442mm × 650mm × 1420mm (32U)	442mm × 650mm × 620 mm (14U)	442mm × 650mm × 175 mm (DC 4U) 442mm × 650mm × 220 mm (AC 5U)
Interface type	OC-192c/STM-64c POS OC-48c/STM-16c POS OC-3c/STM-1c POS OC-12c/STM-4c ATM OC-3c/STM-1c ATM 100GE-WAN/LAN 10GE-WAN/LAN GE/FE E3/CT3 CE1/CT1		

5

Enterprise Router AR Series Products

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AR100, AR120, AR150, AR160 and AR200 Series Enterprise Routers

Huawei's next-generation routers, the AR100, AR120, AR150, AR160 and AR200 series are designed for enterprise branch offices and small businesses, delivering a comprehensive set of services, including routing, switching, voice, security, and wireless access.

Product Overview

The AR100, AR120, AR150, AR160 and AR 200 series are fixed interface routers that provide a comprehensive platform for a variety of network topologies, including IMS, NGN, WAN and PSTN. The AR100, AR120, AR 150, AR160 and AR200 also employ embedded hardware encryption for security as well as a voice Digital Signal Processor (DSP) for voice services.

The AR100, AR120, AR150, AR160 and AR200 series are mature, stable and quiet routers that offer high performance functionality for small networks, enabling small businesses to greatly increase productivity at a lower cost.

AR100s, AR120s, AR150s, AR160s and AR 200s are easy to deploy, configure and customize, greatly reducing cost of deployment and maintenance, while offering maximum value to customers. These models allow network administrators to expand their networks easily and quickly, saving time and costs.

Both models support firewalls, call processing, and application program functionalities.

The AR100, AR120, AR150, AR160 and AR200 series includes the following models:

- AR109, AR109W, AR109GW-L
- AR129CVW, AR129CGVW-L, AR121, AR121W, AR129, AR129W
- AR151, AR151G-HSPA+7, AR157, AR157G-HSPA+7, AR157VW, AR157W, AR158E, AR158EVW
- AR161, AR161F, AR161F-DGP, AR161FG-L, AR161FGW-L, AR161FW, AR161G-L, AR161W, AR161FV-1P, AR162F, AR168F, AR169, AR169F, AR169FVW, AR169FVW-8S, AR169FGW-L, AR169FGVW-L, AR169G-L, AR169W, AR169CVW, AR169CVW-4B4S, AR161EW, AR169EW, AR169EGW-L, AR161EW-LM1
- AR201, AR207, AR207G-HSPA+7 and AR208E

The specifications for these models are shown in the following table.

Product Features

Table1: AR100 Models





<p style="text-align: center;">AR109</p> 	<ul style="list-style-type: none"> • WAN speed with services (IMIX): 40 Mbps • Fixed ports: 4 x GE LAN, 1 x VDSL2/ADSL, 1 x GE WAN • Dimensions (H x W x D): 30 mm x 230mm x 130 mm(1.18 in. x 9.1 in. x 5.1 in.)
<p style="text-align: center;">AR109W</p> 	<ul style="list-style-type: none"> • WAN speed with services (IMIX): 40 Mbps • Fixed ports: 4 x GE LAN, 1 x VDSL2/ADSL, 1 x GE WAN • WLAN: 802.11b/g/n • Dimensions (H x W x D): 30 mm x 230mm x 130 mm(1.18 in. x 9.1 in. x 5.1 in.)
<p style="text-align: center;">AR109GW-L</p> 	<ul style="list-style-type: none"> • WAN speed with services (IMIX): 40 Mbps • Fixed ports: 4 x GE LAN, 1 x VDSL2/ADSL, 1 x GE WAN • LTE: LTE FDD • WLAN: 802.11b/g/n • Dimensions (H x W x D): 30 mm x 230mm x 130 mm(1.18 in. x 9.1 in. x 5.1 in.)

Table2: AR120 Models

<p style="text-align: center;">AR129CVW</p> 	<ul style="list-style-type: none"> • WAN speed with services (IMIX): 50 Mbps • Fixed ports: 4 x GE LAN, 1 x VDSL2, 1 x GE WAN • Voice ports: 2 x FXS • WLAN: 802.11ac, 802.11b/g/n • Dimensions (H x W x D): 30 mm x 230mm x 130 mm(1.18 in. x 9.1 in. x 5.1 in.)
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- WAN speed with services (IMIX): 50 Mbps
- Fixed ports: 4 x GE LAN, 1 x VDSL, 1 x GE WAN
- Voice ports: 2 x FXS
- LTE: LTE FDD
- WLAN: 802.11ac, 802.11b/g/n
- Dimensions (H x W x D): 30 mm x 230mm x 130 mm(1.18 in. x 9.1 in. x 5.1 in.)



- WAN speed with services (IMIX): 50 Mbps
- Fixed ports: 4 x FE LAN(can be configured as WAN interfaces), 1 x FE WAN
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)



- WAN speed with services (IMIX): 50 Mbps
- Fixed ports: 4 x FE LAN(can be configured as WAN interfaces), 1 x FE WAN, 802.11 b/g/n
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)



- WAN speed with services (IMIX): 50 Mbps
- Fixed ports: 4 x FE LAN(can be configured as WAN interfaces), 1 x VDSL2 WAN
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)



- WAN speed with services (IMIX): 50 Mbps
- Fixed ports: 4 x FE LAN(can be configured as WAN interfaces), 1 x VDSL2 WAN, 802.11 b/g/n
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

Table3: AR150 Models



- WAN speed with services (IMIX): 100 Mbps
- Fixed ports: 4 x FE LAN(can be configured as WAN interfaces), 1 x FE WAN
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)



- WAN speed with services (IMIX): 100 Mbps
- Fixed ports: 4 x FE LAN(can be configured as WAN interfaces), 1 x FE WAN, WCDMA HSPA+7
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

AR157



- WAN speed with services (IMIX): 100 Mbps
- Fixed ports: 4 x FE LAN(can be configured as WAN interfaces), 1 x ADSL2+ Annex A/M
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

AR157G-HSPA+7



- WAN speed with services (IMIX): 100 Mbps
- Fixed ports: 4 x FE LAN(can be configured as WAN interfaces), 1 x ADSL2+ Annex A/M, WCDMA HSPA+7
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

AR157VW



- WAN speed with services (IMIX): 100 Mbps
- Fixed ports: 4 x FE LAN(can be configured as WAN interfaces), 1 x ADSL2+ Annex A/M, 802.11 b/g/n
- Fixed Voice ports: 4 x FXS, 1 x FXO
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

AR157W



- WAN speed with services (IMIX): 100 Mbps
- Fixed ports: 4 x FE LAN(can be configured as WAN interfaces), 1 x ADSL2+ Annex A/M, 802.11 b/g/n
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

AR158E



- WAN speed with services (IMIX): 100 Mbps
- Fixed ports: 4 x FE LAN(can be configured as WAN interfaces), 1 x G.SHDSL 4-pair
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

AR158EVW



- WAN speed with services (IMIX): 100 Mbps
- Fixed ports: 4 x FE LAN(can be configured as WAN interfaces), 1 x G.SHDSL 4-pair, 802.11 b/g/n
- Fixed Voice ports: 4 x FXS, 1 x FXO
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

Table4: AR160 Models



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 4 x GE LAN(can be configured as WAN interfaces), 1 x GE WAN
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 4 x GE LAN(can be configured as WAN interfaces), 1 x GE Combo WAN
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 4 x GE LAN(can be configured as WAN interfaces), 1 x GE Combo WAN
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 4 x GE LAN(can be configured as WAN interfaces), 1 x GE Combo WAN, 802.11 b/g/n
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 4 x GE LAN(can be configured as WAN interfaces), 1 x GE Combo WAN, FDD LTE
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 4 x GE LAN(can be configured as WAN interfaces), 1 x GE Combo WAN, FDD LTE, 802.11 b/g/n
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

AR161G-L



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 4 x GE LAN(can be configured as WAN interfaces), 1 x GE WAN, FDD LTE
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

AR161W



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 4 x GE LAN(can be configured as WAN interfaces), 1 x GE WAN, 802.11 b/g/n
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)
- Cloud-managed

AR161FV-1P



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 4 x GE LAN(can be configured as WAN interfaces), 1 x GE Combo WAN
- Fixed Voice ports: 1 x VE1
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

AR162F



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 4 x GE LAN(can be configured as WAN interfaces), 1 x GE Combo WAN, 1 x SA
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

AR168F



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 4 x GE LAN(can be configured as WAN interfaces), 1 x G.SHDSL 4-pair, 1 x GE Combo WAN
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

AR169



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 4 x GE LAN(can be configured as WAN interfaces), 1 x VDSL2
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

AR169F



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 4 x GE LAN(can be configured as WAN interfaces), 1 x VDSL2 with bonding, 1 x GE Combo WAN
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

AR169FVW



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 4 x GE LAN(can be configured as WAN interfaces), 1 x GE Combo WAN, 1 x VDSL2 with bonding, 802.11 b/g/n
- Fixed Voice ports: 4 x FXS, 1 x FXO
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

AR169FVW-8S



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 4 x GE LAN(can be configured as WAN interfaces), 1 x GE Combo WAN, 1 x VDSL2 with bonding, 802.11 b/g/n
- Fixed Voice ports: 8 x FXS, 1 x FXO
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

AR169FGW-L



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 4 x GE LAN(can be configured as WAN interfaces), 1 x GE Combo WAN, 1 x VDSL2 with bonding, LTE FDD, 802.11 b/g/n
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

AR169FGVW-L



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 4 x GE LAN(can be configured as WAN interfaces), 1 x GE Combo WAN, 1 x VDSL2 with bonding, LTE FDD, 802.11 b/g/n
- Fixed Voice ports: 4 x FXS, 1 x FXO
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

AR169G-L



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 4 x GE LAN(can be configured as WAN interfaces), 1 x VDSL2, FDD LTE
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

AR169W



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 4 x GE LAN(can be configured as WAN interfaces), 1 x VDSL2, 802.11 b/g/n
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

AR169CVW



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 4 x GE LAN(can be configured as WAN interfaces), 1 x GE SFP, 1 x VDSL2, 802.11 ac/b/g/n
- Fixed Voice ports: 4 x FXS, 1 x FXO
- Dimensions (H x W x D): 30 mm x 270 mm x 155 mm (1.18 in. x 11.4 in. x 6.1 in.)

AR169CVW-4B4S



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 4 x GE LAN(can be configured as WAN interfaces), 1 x GE SFP, 1 x VDSL2, 802.11 ac/b/g/n
- Fixed Voice ports: 4 x ISDN BRI, 4 x FXS, 1 x FXO
- Dimensions (H x W x D): 30 mm x 270 mm x 155 mm (1.18 in. x 11.4 in. x 6.1 in.)

AR161EW



- WAN speed with services (IMIX): 600 Mbps
- Fixed ports: 4 x GE RJ45 LAN, 1 x GE Combo WAN
- WLAN: 802.11a/b/g/n/ac/ac wave2, 4x4:4 MU-MIMO
- Dimensions (H x W x D): 44.0 mm x 300.0 mm x 216.4 mm (1.73 in. x 11.8 in. x 8.5 in.)

AR169EW



- WAN speed with services (IMIX): 600 Mbps
- Fixed ports: 4 x GE RJ45 LAN, 1 x VDSL2 with Bonding, 1 x GE Combo WAN
- WLAN: 802.11a/b/g/n/ac/ac wave2, 4x4:4 MU-MIMO
- Dimensions (H x W x D): 44.0 mm x 300.0 mm x 216.4 mm (1.73 in. x 11.8 in. x 8.5 in.)

AR169EGW-L



- WAN speed with services (IMIX): 600 Mbps
- Fixed ports: 4 x GE RJ45 LAN, 1 x VDSL2 with Bonding, 1 x GE Combo WAN
- WWAN: LTE FDD
- WLAN: 802.11a/b/g/n/ac/ac wave2, 4x4:4 MU-MIMO
- Dimensions (H x W x D): 44.0 mm x 300.0 mm x 216.4 mm (1.73 in. x 11.8 in. x 8.5 in.)

AR161EW-M1



- WAN speed with services (IMIX): 600 Mbps
- Fixed ports: 4 x GE RJ45 LAN, 1 x GE Combo WAN
- WLAN: 802.11a/b/g/n/ac/ac wave2, 4x4:4 MU-MIMO
- Hard disk: 2.5-inch hard disk (optional)
- Dimensions (H x W x D): 44.0 mm x 300.0 mm x 216.4 mm (1.73 in. x 11.8 in. x 8.5 in.)

Table4: AR200 Models



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 8 x FE LAN(can be configured as WAN interfaces), 1 x FE WAN
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 8 x FE LAN(can be configured as WAN interfaces), 1 x ADSL2+ Annex A/M
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 8 x FE LAN(can be configured as WAN interfaces), WCDMA HSPA+7,
- 1 x ADSL2+ Annex A/M
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 8 x FE LAN(can be configured as WAN interfaces), 1 x G.SHDSL 4-pair
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

AR1200 Series Enterprise Routers

Huawei AR1200 Series routers are designed to provide secure and scalable unified voice and data communications for small enterprises or large enterprise branch offices.

Product Overview

Huawei AR1200 series enterprise routers are next-generation enterprise-class routers based on the Huawei proprietary Versatile Routing Platform (VRP). They build on Huawei's record of leadership in data communication and networking to provide industry-leading system performance and scalability to meet current and future business needs.

The AR1200 series integrates routing, switching, 3G service, Wireless LAN (WLAN), voice, and security functions. The AR1200 uses an embedded hardware encryption technique and supports a voice-optimized Digital Signal Processor (DSP). The router supports firewall security, call processing, voice mail, and other applications. It supports wired and wireless access modes, including E1/T1, xDSL, xPON, WiFi, 3G, and more. The AR1220V, AR1220W, AR1220VW, AR1220EV and AR1220EVW models provide Power over Ethernet (PoE) on fixed 100M Ethernet interfaces.

The AR1220 series has been qualified with Microsoft Lync server, and can be seamlessly integrated into Microsoft unified communications solutions.

Product Features

Table 1: AR1200 Models

<p style="text-align: center;">AR1220</p> 	<ul style="list-style-type: none"> • WAN speed with services(IMIX): 200Mbps • Fixed port: 8xFE(can be configured as WAN interfaces), 2xGE • Slot: 2xSIC • Dimensions (H x W x D): 44.5mm x 390 mm x 220 mm
<p style="text-align: center;">AR1220C</p> 	<ul style="list-style-type: none"> • WAN speed with services(IMIX): 200Mbps • Fixed port: 8xGE(can be configured as WAN interfaces), 4xGE + 1xGE SFP • Slot: 2xSIC • Dimensions (H x W x D): 44.5mm x 390 mm x 220 mm
<p style="text-align: center;">AR1220E</p> 	<ul style="list-style-type: none"> • WAN speed with services(IMIX): 400Mbps • Fixed port: 8xGE(can be configured as WAN interfaces), 2xGE Combo • Slot: 2xSIC • Dimensions (H x W x D): 44.5mm x 390 mm x 220 mm
<p style="text-align: center;">AR1220F</p> 	<ul style="list-style-type: none"> • WAN speed with services(IMIX): 400Mbps • Fixed port: 8*FE(can be configured as WAN interfaces), 2*GE(1*Combo) • Slot: 2*SIC • Dimensions (H x W x D):44.5mm x 390mm x 220mm
<p style="text-align: center;">AR1220V</p> 	<ul style="list-style-type: none"> • WAN speed with services(IMIX): 200Mbps • Fixed port: 8xFE(four FE ports support PoE) (can be configured as WAN interfaces), 2xGE • PoE: compliance with IEEE 802.3af and 802.3at • DSP: 32 channels supported • Slot: 2xSIC • Dimensions (H x W x D): 44.5mm x 390 mm x 220 mm

AR1220EV



- WAN speed with services(IMIX): 400Mbps
- Fixed port: 8xGE(four GE ports support PoE) (can be configured as WAN interfaces), 2XGE combo
- PoE: compliance with IEEE 802.3af and 802.3at
- DSP: 32 channels supported
- Slot: 2xSIC
- Dimensions (H x W x D): 44.5mm x 390 mm x 220 mm

AR1220W



- WAN speed with services(IMIX): 200Mbps
- Fixed port: 8xFE (four FE ports support PoE) (can be configured as WAN interfaces), 2xGE
- PoE: compliance with IEEE 802.3af and 802.3at
- Slot: 2xSIC
- WiFi: compliance with 802.11b/g/n
- Dimensions (H x W x D): 44.5mm x 390 mm x 220 mm

AR1220VW



- WAN speed with services(IMIX): 200Mbps
- Fixed port: 8xFE (four FE ports support PoE) (can be configured as WAN interfaces), 2xGE
- PoE: compliance with IEEE 802.3af and 802.3at
- DSP: 32 channels supported
- Slot: 2xSIC
- WiFi: compliance with 802.11b/g/n
- Dimensions (H x W x D): 44.5mm x 390 mm x 220 mm

AR1220EVW



- WAN speed with services(IMIX): 400Mbps
- Fixed port: 8xGE(four GE ports support PoE) (can be configured as WAN interfaces), 2XGE combo
- PoE: compliance with IEEE 802.3af and 802.3at
- DSP: 32 channels supported
- Slot: 2xSIC
- WiFi: compliance with 802.11b/g/n
- Dimensions (H x W x D): 44.5mm x 390 mm x 220 mm

AR1220-D



- WAN speed with services(IMIX): 200Mbps
- Fixed port: 8xFE(can be configured as WAN interfaces), 2xGE
- Slot: 2xSIC
- Embedded DC power supply
- Dimensions (H x W x D): 44.5mm x 390 mm x 220 mm

The AR1200 supports optional interface cards, including; Ethernet, E1/T1/PRI/VE, synchronous/asynchronous, ADSL2+, G.SHDSL, and VDSL, FXS and FXO, ISDN, EPON and GPON, 3G, LTE and E&M interface cards. These cards are classified into SIC (Smart Interface Card) cards and WSIC (Double-Width SIC) cards depending on slot type. The primary interface cards are shown and described in the table below.

Note: For more information about interface cards, please refer to Ordering Guide.

AR2200 Series Enterprise Routers

With industry-leading performance, Huawei AR2200 series enterprise routers provide secure and scalable unified voice and data communications for enterprise headquarters or branch offices.

Product Overview

The AR2200 routers are next-generation enterprise-class routers based on the Huawei proprietary Versatile Routing Platform (VRP). These modular-chassis routers integrate routing, switching, 3G service, LTE service, voice, and security functions. Users customize the routers by selecting the interface cards that meet their requirements.

The AR2200 use the embedded hardware encryption technique and support a voice-optimized Digital Signal Processor (DSP). They provide firewall security, call processing, voice mail, and other application programs.

The AR2200 routers support wired and wireless access modes, including E1/T1, xDSL, xPON, CPOS and 3G. Building on Huawei's leading data communication and networking technologies, they provide industry-leading system performance and scalability to meet current and future business needs.

Product Features

Table 1: AR2200 Models

<p>AR2201-48FE</p> 	<ul style="list-style-type: none">• WAN speed with services(IMIX): 200Mbps• Fixed port: 2xGE (one combo port), 48xFE(FE0、FE47 can be configured as WAN interfaces)• Slot: 1xExpansion slot• Dimensions (H x W x D): 44.5mm x 442mm x 310mm
<p>AR2204-27GE</p> 	<ul style="list-style-type: none">• WAN speed with services(IMIX): 200Mbps• Fixed port: 3xGE (one combo port), 24xGE• Slot: 4xSIC• Dimensions (H x W x D): 44.5mm x 442mm x 420mm

AR2204-27GE-P



- WAN speed with services(IMIX): 200Mbps
- Fixed port: 3xGE (one combo port), 24xGE(8 GE ports support PoE)
- PoE: compliance with IEEE 802.3af and 802.3at
- Slot: 4xSIC
- Dimensions (H x W x D): 44.5mm x 442mm x 420mm

AR2204-51GE-P



- WAN speed with services(IMIX): 200Mbps
- Fixed port: 3xGE (one combo port), 48xGE(8 GE ports support PoE)
- PoE: compliance with IEEE 802.3af and 802.3at
- Slot: 4xSIC
- Dimensions (H x W x D): 44.5mm x 442mm x 420mm

AR2204E



- WAN speed with services(IMIX): 200Mbps
- Fixed port: 3xGE (one combo port)
- Slot: 4xSIC
- Dimensions (H x W x D): 44.5mm x 442mm x 420mm

AR2220



- WAN speed with services(IMIX): 400 Mbps
- Fixed port: 3xGE (one combo port)
- Slot: 4xSIC + 2xWSIC
- Dimensions (H x W x D): 44.5 mm x 442 mm x 420mm

AR2220E



- WAN speed with services(IMIX): 800 Mbps
- Fixed port: 3xGE (one combo port)
- Slot: 4xSIC + 2xWSIC
- Dimensions (H x W x D): 44.5 mm x 442 mm x 420mm

AR2240C



- WAN speed with services(IMIX): 1Gbps
- Fixed port: 4 xGE + 4xGE SFP + 2 x GE Combo
- Slot: 4xSIC + 2xWSIC + 2xXSIC
- Dimensions (H x W x D): 88.1 mm x 442 mm x 470 mm

AR2240



- WAN speed with services(IMIX):
 - » o 1Gbps (with SRU40*)
 - » o 2Gbps (with SRU80*)
 - » o 1Gbps (with SRU100E*)
 - » o 4.5Gbps(with SRU200*)
- Hardware-based Traffic Management (with SRU80*)
- Hardware-based HQoS (with SRU80*)
- Fixed port:
 - » o SRU40: 3 x GE(2 x Combo)
 - » o SRU80: 3 x GE(2 x Combo)
 - » o SRU100E: 4 x GE Combo+ 2 x GE SFP
 - » o SRU200: 4 x GE Combo+ 2 x 10GE SFP+
- Slot: 4xSIC + 2xWSIC + 2xXSIC
- Dimensions (H x W x D): 88.1 mm x 442 mm x 470 mm

* Main control board model number

The AR2200 supports optional interface cards, including Ethernet, E1/T1/PRI/VE1, synchronous/asynchronous, ADSL2+/G.SHDSL, FXS/FXO, ISDN, CPOS, EPON/GPON, 3G, LTE and E&M interface cards. These cards are designated SIC (Smart Interface Card) cards, WSIC (Double-Width SIC) cards, or XSIC (Double-Height WSIC) cards, depending on the number of slots they occupy.

Note: For more information about interface cards, please refer to Ordering Guide.

AR3200 Series Enterprise Routers

With its flexible modular design, the Huawei AR3200 series enterprise routers are designed to provide secure unified voice and data communication with exceptional performance and scalability to meet the demands of today's enterprise requirements.

* The 3200 series routers only has one model AR3260 now, but we will add more new models in future.

Product Overview

The Huawei AR3200 enterprise routers are next-generation enterprise-class routers based on the Huawei proprietary Versatile Routing Platform (VRP), which takes advantage of Huawei's leadership in data communication, wireless, access network, and core network technologies.

The AR3200 routers integrate routing, switching, 3G,LTE, voice, and security functions. It utilizes a multi-core CPU and non-blocking switching structure providing industry-leading system performance and extensibility, supporting evolving service development requirements. The AR3200 routers provide an

integrated solution for enterprise networks, speed up multi-service provisioning and protect customers' investments. The modular chassis allows customers to customize the router with interchangeable interface cards.

The AR3200 routers use embedded hardware encryption techniques and support a voice-optimized Digital Signal Processor (DSP). It supports firewall functions, call processing, voice mail, and other applications. The AR3200 routers support wired and wireless access modes, including E1/T1, xDSL, xPON, CPOS, 3G, and LTE.

Product Features

Table 1: AR3200 Models

AR3260	
	<ul style="list-style-type: none">• WAN speed with services(IMIX):<ul style="list-style-type: none">» 1Gbps (with SRU40*)» 2Gbps (with SRU80*)» 1Gbps (with SRU100E*)» 4.5 Gbps(SRU200*)» 5.5 Gbps (SRU400*)• Hardware-based Traffic Management (with SRU80, SRU200* and SRU400*)• Hardware-based HQoS (with SRU80, SRU200* and SRU400*)• Fixed port:<ul style="list-style-type: none">» SRU40: 3 x GE(2 x Combo)» SRU80: 3 x GE(2 x Combo)» SRU100E: 4 x GE Combo+ 2 x GE SFP» SRU200: 4 x GE Combo+ 2 x 10GE SFP+» SRU400: 4 x GE Combo+ 2 x 10GE SFP+• Slots: 4*SIC + 2*WSIC + 4*XSIC• Dimensions (H x W x D): 130.5 mm x 442 mm x 470 mmv

* Main control board model number

The AR3200 routers support optional interface cards, including Ethernet, E1/T1/PRI/VE1, synchronous/asynchronous, ADSL2+/G.SHDSL, ISDN, CPOS, EPON/GPON、FXS/FXO voice cards, 3G, LTE and E&M interface cards. They are available in the following formats: SIC (Smart Interface Card), WSIC (Double-Width SIC), and XSIC (Double-Height WSIC), depending on the number of slots available. The supported interface cards are described below.

Note: For more information about interface cards, please refer to Ordering Guide.

AR160-M Series Enterprise Routers

The Huawei AR160-M series Agile Enterprise Gateway integrates a comprehensive set of services, including routing, switching, security, and wireless access. With an open service platform, the AR160-M can provide computing, storage and network connection functions in one device. The AR160-M is designed to provide ICT solutions for enterprise branch offices and small businesses, which enables customers to launch new applications and solutions quickly.

Product Overview

The AR160-M has three models: AR161FW-P-M5, AR169W-P-M9 and AR169RW-P-M9. The specifications for these models are shown in the following table.

Product Features

AR161FW-P-M5



- WAN speed with services (IMIX): 150 Mbps
- Fixed ports: 4 x GE LAN(PoE),
 - » 1 x GE Combo WAN
 - » 1 x RS485/RS232/RS422
 - » 4 x USB
 - » 1 x HDMI
 - » 1 x 3.5mm Audio Output (Earphone)
 - » 1 x 3.5mm Audio input(MIC)
 - » 1 x Bluetooth
 - » 1 x Zigbee
- 802.11 b/g/n
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

AR169W-P-M9



- WAN speed with services (IMIX): 150Mbps
- Fixed ports: 4 x GE LAN(PoE)
 - » 1 x GE WAN, 1 x VDSL2
 - » 1 x RS485/RS232/RS422
 - » 4 x USB
 - » 1 x HDMI, 1 x VGA
 - » 1 x 3.5mm Audio Output (Earphone)
 - » 1 x 3.5mm Audio input(MIC)
 - » 1 x Bluetooth
- 802.11 b/g/n + 802.11ac
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

AR169RW-P-M9



- WAN speed with services (IMIX): 150Mbps
- Fixed ports: 4 x GE LAN(PoE)
 - » 1 x GE WAN, 1 x VDSL2
 - » 1 x RS485/RS232/RS422
 - » 4 x USB
 - » 1 x HDMI, 1 x VGA
 - » 1 x 3.5mm Audio Output (Earphone)
 - » 1 x 3.5mm Audio input(MIC)
 - » 1 x Bluetooth
 - » 1 x Zigbee
- 802.11 b/g/n + 802.11ac
- Dimensions (H x W x D): 44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)

AR3600 Series Enterprise Routers

Enterprises require better services in addition to simple connections. As there are increasing requirements of customization services, enterprises require a more agile service gateway to provide high performance and multiple functions as well as develop new services. This poses higher requirements for traditional gateway products.

As the core product in Huawei Agile Branch Solution, the AR3600 uses virtualization technology for the first time to implement deep IT and CT integration and achieve convergence and sharing of network and IT resources. The AR3600 helps enterprises quickly launch new applications and solutions and provides enterprises with better services.

Product Overview

The AR3600 series agile enterprise gateway uses the multi-core processor, fully meets customer requirements on the performance, delay, reliability, and security, and guarantees continuous performance improvement and software application extension. With the built-in X86 platform, the AR3600 has great flexibility and is able to support virtualization. By integrating third-party network applications, the AR3600 provides more diversified services.

The following describes the AR3670 appearance and specifications.

Product Features



- Forwarding performance: 4.5Gbit/s
- Slot: 2*SIC + 7*WSIC
- Processor: 6*2.2 GHz Intel processor
- Built-in hard disk: 1TB
- Memory: 24 GB (max.)
- 1+1 redundancy of power modules
- Dimensions (H x W x D): 130.5 mm x 442 mm x 470 mm

The AR3600 series agile enterprise gateway uses the modular design, and can be equipped with cards of AR G3 series routers, protecting investments. Using various universal network interface cards, the AR3600 can simplify the branch configuration and allow easy expansion of large-scale enterprise networks.

Note: For the detailed card information, see order information

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AR501 Series Agile Gateway

Product Overview

The AR501 series agile gateway is designed for industrial environments and supports communication in harsh environments such as extreme temperature, high humidity, and electromagnetic interference. The built-in industrial-grade communication module can support various local interfaces (PLC-IoT, RS485/RS422, RS232, Gigabit Ethernet and RF 6LoWPAN) for connecting serial interface devices, Ethernet devices. It can support AR530s or AR532 to complete the data communication channel switching, suitable for the applications where the space is limited and requires only transparent data transmission.

The AR501 Series comes in four models: AR501C1Pa, AR501L1Rc, and AR501Rz.

AR501C1Pa



- Fixed interfaces: RS485*1, DI*1, IRDA*1
- Support Huawei Broadband PLC
- IP51, dustproof, waterproof
- works at temperatures from -25°C to +70°C

AR501L1Rz



- Communication mode:
 - IEEE802.15.4 (ZigBee, 2400 MHz to 2483.5 MHz)
- Operating temperature: -40°C to +65°C
- Encryption mode: AES-128
- Compliance with ANSI C136.41-2013
- IP66 except for bottom side
- D= 83.5, H = 119, Cylinder-shaped (D: diameter, H: height)

AR501L1Rc



- Communication mode:
 - IEEE802.15.4 (RF 6LoWPAN, 433.8Mhz/433.05Mhz-434.79Mhz)
- Operating temperature: -40°C to +65°C
- Encryption mode: AES-128
- Compliance with ANSI C136.41-2013
- IP66 except for bottom side
- D= 83.5, H = 119, Cylinder-shaped (D: diameter, H: height)

AR501L1Rb*



- Communication mode:
 - IEEE802.15.4 (RF 6LoWPAN, 868MHz/915MHz)
- Operating temperature: -40°C to +65°C
- Encryption mode: AES-128
- Compliance with ANSI C136.41-2013
- IP66 except for bottom side
- D= 83.5, H = 119, Cylinder-shaped (D: diameter, H: height)

* AR501L1Rb will be supported in a future release.

AR502 Series Agile Gateways

Product Overview

The AR502 series agile gateway is designed for industrial environments and supports communication in harsh environments such as extreme temperature, high humidity, and electromagnetic interference. The built-in industrial-grade LTE module supports high bandwidth, low-latency wireless access, and various local interfaces (RS485/RS422, RS232, Gigabit Ethernet and radio-frequency) for connecting serial interface devices, Ethernet devices. The AR502 applies to multiple IoT fields, such as smart grid and smart transportation.

The AR502 Series comes in four models: AR502EG-L, AR502EGW-L, AR502EGRb-L and AR502CG-L.

Product Features

AR502EG-L



- Fixed interfaces: 2 x GE RJ45, 1 x RS485/422, 1 x RS232, and 6 x digital input/output (DI/DO), 1 x USB2.0
- LTE: LTE FDD
- Operating temperature: -25°C to $+70^{\circ}\text{C}$
- Dimensions (W x D x H): 150 mm x 100 mm x 44 mm
- Power supplies: DC: 8 V to 36 V

AR502EGW-L



- Fixed interfaces: 2 x GE RJ45, 1 x RS485/422, 1 x RS232, and 6 x digital input/output (DI/DO), 1 x USB2.0
- LTE: LTE FDD
- WLAN: 802.11b/g/n
- Operating temperature: -25°C to $+70^{\circ}\text{C}$
- Dimensions (W x D x H): 150 mm x 100 mm x 44 mm
- Power supplies: DC: 8 V to 36 V

AR502EGRb-L



- Fixed interfaces: 2 x GE RJ45, 1 x RS485/422, 1 x RS232, and 6 x digital input/output (DI/DO), 1 x USB2.0
- LTE: LTE FDD
- Radio-frequency (RF): 915MHz/868MHz*
- Operating temperature: -25°C to $+70^{\circ}\text{C}$
- Dimensions (W x D x H): 150 mm x 100 mm x 44 mm
- Power supplies: DC: 8 V to 36 V

AR502CG-L



- Fixed interfaces: 2 x GE RJ45, 1 x RS232, 1 x DI, 1 x DO, 1 x USB2.0
- LTE: LTE FDD
- Operating temperature: -25°C to +60°C
- Dimensions (W x D x H): 150 mm x 100 mm x 44 mm
- Power supplies: DC: 8 V to 36 V

* 868MHz RF is hardware-ready. Software supported in a future release.

AR503 Series Agile Gateways

Product Overview

HUAWEI AR503 series agile gateway, is designed to work in harsh environments. It provides a rapidly deployable, highly available, reliable, and secure solution into the Internet of Things (IoT) applications for vehicles (bus, train, police car, and ambulance) scenarios.

The AR503 series is available in four models: AR503GW-LM7, AR503EDGW-Lc, AR503EQGW-L and AR503EW.

Product Features

AR503GW-LM7



- Fixed interfaces: 1 x GE, 1 USB HOST
- FDD/TDD LTE (1*LTE module, 2*SIM slots)
- Wi-Fi: dual-band AP, 2.4 GHz and 5 GHz, 2x2 MIMO, 802.11a/b/g/n
- GPS
- IP41, Waterproof and dustproof
- Dimensions (W x D x H): 200 mm x 160 mm x 44 mm

AR503EDGW-Lc



- Fixed interfaces: 4 x GE(M12), 1 USB HOST
- FDD/TDD LTE (2*LTE module, 4*SIM slots)
- Wi-Fi: dual-band AP, 2.4 GHz and 5 GHz, 3x3 MIMO, 802.11b/g/n + 802.11ac
- GPS
- IP54, Waterproof and dustproof
- Dimensions (W x D x H): 280 mm x 200 mm x 44 mm

AR503EQGW-L



- Fixed interfaces: 4 x GE(M12), 1 USB HOST
- FDD LTE (4*LTE module, 8*SIM slots)
- Wi-Fi: dual-band AP, 2.4 GHz and 5 GHz, 2x2 MIMO, 802.11b/g/n + 802.11ac
- GPS
- IP54, Waterproof and dustproof
- Dimensions (W x D x H): 280 mm x 200 mm x 44 mm

AR503EW



- Fixed interfaces: 4 x GE(M12), 1 USB HOST
- Wi-Fi: dual-band AP, 2.4 GHz and 5 GHz, 3x3 MIMO, 802.11b/g/n + 802.11ac
- IP54, Waterproof and dustproof
- Dimensions (W x D x H): 280 mm x 200 mm x 44 mm

AR509 Series Agile Gateway

Product Overview

HUAWEI AR509 series agile gateway, is designed to work in harsh environments. It provides a rapidly deployable, highly available, reliable, and secure solution into the Internet of Things (IoT) applications for finance, energy, and electric power industries, telemetry, retail, and other industrial automation scenarios.

The AR509 series is available in the models: AR509G-L-D-H and AR509GW-L-D-H.

Product Features

AR509G-L-D-H



- Fixed interface: 1xGE WAN , 4xGE LAN, 1xVDSL2
- FDD LTE (dual SIM slots)
- IP41, Waterproof and dustproof
- Dimensions (W x D x H): 190 x 220 x 44 mm

AR509GW-L-D-H



- Fixed interface: 1xGE WAN , 4xGE LAN, 1xVDSL2
- FDD LTE (dual SIM slots)
- 802.11a/b/g/n, dual-band AP, 2.4 GHz and 5 GHz, 2x2 MIMO
- IP41, Waterproof and dustproof
- Dimensions (W x D x H): 190 x 220 x 44 mm

AR510 Series Agile Gateways

AR510 Series Agile Gateways are gateways tailored for mobile Internet applications. They can be installed on vehicles (bus, train, police car, and school bus), bus stops, advertising boards, restaurants, and exhibition displays. AR510 integrates routing gateway and multimedia functions, provide network access, video programs, and ad broadcasting functions. They provide mobile information services for consumers and create an intelligent routing system.

Product Overview

The AR510 has a small size and is easy to install. It can directly receive power from the vehicle-mounted power supply. The AR510 complies with industry standards and is dustproof, waterproof, shockproof, and high-temperature resistant. It can run stably and reliably even in harsh environments.

Dedicated for vehicle wireless access and vehicle-mounted video transmission, the AR510 supports 2.4 GHz and 5 GHz and connect many users for simultaneous access. It uses a 4G FDD LTE network for the data network but is compatible with a 3G network. With the wireless network, it provides long-distance data transmission and GPS.

The AR510 supports firewall technology and multiple VPN technologies to establish reliable, secure links, and ensure data security.

The following describes the specifications of the AR510 model: AR511GW-LAV2M3, AR513W-V3M8 and AR515GW-LM9-D.

Product Features

AR511GW-LAV2M3



- Fixed interfaces: 2 x GE, 1 USB HOST, 1 USB OTG
- Two video interfaces (HDMI, CVBS, or YPbPr)
- Two stereo outputs (one output with audio power amplifier), one stereo input
- FDD LTE, compatible with 3G
- Wi-Fi: dual-band AP, 2.4 GHz and 5 GHz, 2x2 MIMO, 802.11a/b/g/n
- GPS
- IP40 or IP54(Mount bracket) , Waterproof and dustproof
- Dimensions (W x D x H): 275 mm x 160 mm x 30 mm

AR513W-V3M8



- Fixed interfaces: 2*GE, 1*eSATA, 3*USB HOST, 1*USB OTG
- 2*HDMI, 1*VGA
- Two stereo outputs (L/R), 3.5mm headset jack
- 2*DI+1*DO
- Wi-Fi: dual-band AP, 2.4 GHz and 5 GHz, 2x2 MIMO, 802.11a/b/g/n
- Dimensions (W x D x H): 275 mm x 160 mm x 30 mm

AR515GW-LM9-D



- Fixed interfaces:
 - » 8*GE(M12)
 - » 1*VGA, 1*HDMI (OSP System)
 - » 1*audio outputs, 1*audio input (OSP System)
 - » 1*RS485/232 (OSP System)
 - » 1*DB37 (OSP System)1
- FDD LTE, compatible with 3G
- Wi-Fi: dual-band AP, 2.4 GHz and 5 GHz, 2x2 MIMO, 802.11b/g/n/ac
- GPS
- IP51, Waterproof and dustproof
- Dimensions (W x D x H): 406 mm x 270 mm x 68 mm

Note: DB37 interface is reserved

AR530 Series Agile Gateways

The AR530 series industrial IoT gateways, named industrial switching routers, are designed to work in harsh environments of Internet of Things (IoT) applications. They integrate routing, switching, security, and Advanced Metering Infrastructure (AMI) functions and provide various capabilities.

Product Overview

Compared with Enterprise routers, industrial routers are more adaptable to harsh industrial environments because their components are more strictly selected. The AR530 handles a wider

temperature range, a fanless design and provides Ingress Protection 51 (IP51). With these key technologies, the AR530 is high- and low-temperature resistant, dustproof, waterproof, and can resist electro-magnetic interference. The AR530 uses a modular design and integrates various types of interfaces, such as FE, GE, 3rd Generation (3G), Power Line Communication (PLC), ZigBee, Radio Frequency (RF) and RS485.

The AR530 provides AMI centralized meter reading services. It can automatically collect meter and status data, analyze and store data in a centralized manner, and send data to the management system. The AR530 provides uplink, downlink, and local networking, to meet the requirements for the Internet of Things (IoT) in the energy industry.

The AR530 is available in the following models: AR531-2C-H, AR531GPe-U-H and AR532.

Product Features



- Fixed interfaces: 1 GE, 1 GE Combo, 2 DI, 2 DO, 2 RS485, 1 RS232, 1 USB2.0, 1 Pulse out, 1 Infrared, 6 Operation Keys
- Plastic, Float Equipment, Battery internal, AC 110/220V Power
- Support 1 SIM card for 3G/GPRS uplink
- Support Huawei PLC-IoT, Support 433M/915M RF(Optional)
- IP51, dustproof, waterproof
- Works at temperatures from -25°o to +70°t



- Fixed interfaces: 6 x FE, 2 x FE combo, 2 x GE (SFP), 2 x RS485, 2 x DI
- IP51, dustproof, waterproof
- Fanless design, works at temperatures from -40°C to +70°C



- Fixed interfaces: 6 x FE, 2 x GE (SFP), WCDMA, PLC (Hi-PLC/S-FSK), 2 x RS485, 2 x DI
- IP51, dustproof, waterproof
- Fanless design, works at temperatures from -40°C to +60°C

AR550 Series Agile Gateways

Product Overview

AR550 series industrial agile gateway are specially designed for network communication in challenging environments such as extreme temperature, high humidity, and electromagnetic interference. The AR550 series integrates routing, switching, IPsec VPN, and other functions, provides powerful application scalability, and widely applies to various industrial automation fields, such as electric power automation and transportation automation.

The AR550 series is available in four models: AR550C-4GE, AR550C-2C6GE, AR550-8FE-D-H and AR550-24FE-D-H.

Product Features

AR550C-4GE



- Fixed interfaces: 2 x 2.5G SFP(compatible with GE), 4 x GE RJ45, 1 x USB2.0, 1 x DI, 1 x DO
- Working temperature: -40°C to $+70^{\circ}\text{C}$
- Dimensions (W x D x H): 44 mm x 133 mm x 150 mm
- Redundant power supplies: 9.6V to 60V DC

AR550C-2C6GE



- Fixed interfaces: 2 x 2.5G SFP(compatible with GE), 2 x GE combo, 6 x GE RJ45, 1 x RS485, 1 x USB2.0, 1 x DI, 1 x DO
- Working temperature: -40°C to $+70^{\circ}\text{C}$
- Dimensions (W x D x H): 44 mm x 133 mm x 150 mm
- Redundant power supplies: 9.6V to 60V DC

AR550-8FE-D-H



- Fixed interfaces: 4 x GE combo, 8 x FE RJ45, 1 x USB2.0, and 1 x digital output (DO)
- Working temperature: -40°C to $+70^{\circ}\text{C}$
- Dimensions (W x D x H): 97 mm x 133 mm x 150 mm
- Redundant power supplies: 9.6 V to 60 V DC

AR550-24FE-D-H



- Fixed interfaces: 4 x GE combo, 24 x FE RJ45, 1 x USB2.0, and 1 x DO
- Working temperature: -40°C to $+70^{\circ}\text{C}$
- Dimensions (W x D x H): 133 mm x 133 mm x 150 mm
- Redundant power supplies: 9.6 V to 60 V DC

AR2500 Series Agile Gateways

Product Overview

The AR2500 series agile gateway is designed to work in challenging environments such as extreme temperatures, high humidity, and electromagnetic interference. The AR2500 uses the modular design and supports various types of communication interfaces such as Ethernet and serial interfaces to provide flexible networking modes.

The AR2500 provides the following functions:

- Line-rate switching at Layer 2 and Layer 3.
- Layer 2 functions such as VLAN, STP/MSTP, and SEP, and Layer 3 functions such as static and dynamic unicast routing, and multicast routing.
- Integration of firewall, NAT, and IPSec VPN to meet increasingly complex service requirements of industrial networks.

The AR2500 can be used in a wide range of industries, such as smart grid and intelligent transportation.

The AR2500 is available in three models: AR2504-H, AR2504E-H and AR2504-D-H.

Product Features

AR2504-H



- Fixed interfaces: 4*GE combo, 4*GE RJ45, 1*USB2.0, and 1*DO
- Slots: 2*WSIC
- Operating temperatures: -40°C to +70°C
- Dimensions (W x D x H): 442 mm x 420 mm x 44 mm
- Redundant power module: 220 V AC

AR2504E-H



- Fixed interfaces: 2*10GE, 4*GE combo, 4*GE RJ45, 1*USB2.0, and 1*DO
- Slots: 2*WSIC
- Operating temperatures: -40°C to +70°C
- Dimensions (W x D x H): 442 mm x 420 mm x 44 mm
- Redundant power module: 220 V AC

AR2504-D-H



- Fixed interfaces: 4*GE combo, 4*GE RJ45, 1*USB2.0, and 1*DO
- Slots: 2*WSIC
- Operating temperatures: -40°C to +60°C
- Dimensions (W x D x H): 442 mm x 420 mm x 44 mm
- Redundant power module: 24V DC ~ 48V DC



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USG6305&6310S&6320 Series Desktop Next-Generation Firewall



Overview

Huawei USG6305/6310S/6320 series desktop next-generation firewalls are security gateway products designed for small enterprises, branches, and chain businesses. This series of products integrate various security functions and support multiple IPv4/IPv6 routing protocols, applicable to all kinds of small network access scenarios. The USG6305/6310S/6320 series provides GE and WI-FI interfaces in the down link to directly provide WI-FI access services and provides GE uplink interfaces and 3G/4G LTE backup links for emergency Internet access services.

The USG6305/6310S/6320 series desktop next-generation firewalls can be deployed with the Agile Controller to form enterprise branch security access solutions, providing unified authentication of wired and wireless users, and portal customization services. Centralized service management can reduce branch management pressures and can also provide flexible service customization platforms for precise marketing in business shops.

It supports cloud-based management and enables Huawei Agile Controller-Campus to manage and configure the firewalls.

Specifications

Model	USG6305	USG6305-W	USG6310S	USG6310S-W	USG6310S-WL-OVS	USG6320
Fixed port	4 x GE(RJ45)	4 x GE(RJ45)	8 x GE(RJ45)	8 x GE(RJ45)	8 x GE(RJ45)	8 x GE(RJ45)
USB2.0 port	Supported	Supported	Supported	Supported	Supported	Supported
WIFI	-	Supports 2.4G+5G dual-frequency. Supports 802.11a/b/g/n/ac.	-	Supports 2.4G+5G dual-frequency. Supports 802.11a/b/g/n/ac	Supports 2.4G+5G dual-frequency. Supports 802.11a/b/g/n/ac.	-
4G LTE	The USB port can house a 4G LTE data card.				The slot supports such standards as 4G LTE, 3G UMTS, and 2G GSM.	The USB port can house a 4G LTE data card.
Product model	Desktop					Desktop
Local storage	Optional, can house expandable 64 GB micro SD cards					-

USG6300 Series

Next-Generation Firewall(Box-shaped)



Product Overview

Enterprise networks are evolving into next-generation networks that feature mobile broadband, big data, social networking, and cloud services. Yet, mobile applications, Web2.0, and social networks expose enterprise networks to the risks on the open Internet. Cybercriminals can easily penetrate a traditional firewall by spoofing or using Trojan horses, malware, or botnets.

HUAWEI Secospace USG6300 series is designed to address these challenges, and providing a reliable and secure network for small and medium-sized enterprises. It analyzes intranet service traffic from six dimensions, including application, content, time, user, attack, and location and then automatically generates security policies as suggestions to optimize the security management and provide high-performance application-layer protection for enterprise networks.

It supports cloud-based management and enables Huawei Agile Controller-Campus to manage and configure the firewalls.

Note: USG6300 is next-generation firewall products series in USG (Unified Security Gateway) product family.

Specifications

Model	USG6330	USG6350	USG6360	USG6370	USG6380	USG6390
Firewall throughput ¹ (1518byte, UDP)	1 Gbit/s	2 Gbit/s	3 Gbit/s	4 Gbit/s	6 Gbit/s	8 Gbit/s
FW + SA + IPS Throughput ²	500 Mbit/s	950 Mbit/s	1.1 Gbit/s	2 Gbit/s	2 Gbit/s	2 Gbit/s
FW + SA + Antivirus Throughput ²	500 Mbit/s	950 Mbit/s	1.1 Gbit/s	2 Gbit/s	2 Gbit/s	2 Gbit/s
Concurrent sessions (HTTP1.1) ¹	1,500,000	2,000,000	3,000,000	4,000,000	4,000,000	4,000,000
New sessions per second (HTTP1.1) ¹	30,000	30,000	30,000	60,000	70,000	80,000

Model	USG6330	USG6350	USG6360	USG6370	USG6380	USG6390
IPsec VPN Throughput ¹ (AES-128 + SHA1, 1420-byte)	400Mbit/s	800Mbit/s	900Mbit/s	3Gbit/s	3Gbit/s	3Gbit/s
Virtual firewalls	50	50	50	100	100	100
Fixed port	4 × GE(RJ45)+2 × GE(Combo)			8 × GE(RJ45)+4 × GE(SFP)		
Expansion Slots	2 x WSIC					
Interface module	2 x 10GE (SFP+)+8 x GE (RJ45), 8 x GE (RJ45), 8 x GE (SFP), 4 x GE (RJ45) BYPASS					
HDD	Optional supports 300 GB or 600 GB or 1200 GB hard disks.					

USG6600 Series Next-Generation Firewall



Overview

Enterprise networks are evolving into next-generation networks that feature mobile broadband, big data, social networking, and cloud services. Yet, mobile applications, Web2.0, and social networks expose enterprise networks to the risks on the open Internet. Cybercriminals can easily penetrate a traditional firewall by spoofing or using Trojan horses, malware, or botnets.

HUAWEI Secospace USG6600 series is designed to address these challenges of Carrier, large- and medium-sized enterprises and next-generation data centers. It analyzes intranet service traffic from six dimensions, including application, content, time, user, attack, and location and then automatically generates security policies as suggestions to optimize the security management and provide high-performance application-layer protection for enterprise networks.

Note: USG6600 is next-generation firewall products series in USG (Unified Security Gateway) product family.

Specifications

Model	USG6620	USG6630	USG6650	USG6660	USG6670	USG6680
Firewall throughput ¹ (1518byte, UDP)	12 Gbit/s	16 Gbit/s	20 Gbit/s	25 Gbit/s	35 Gbit/s	40 Gbit/s
FW + SA + IPS Throughput ²	5.8 Gbit/s	5.8 Gbit/s	8.8 Gbit/s	8.8 Gbit/s	8.8 Gbit/s	15 Gbit/s
FW + SA + Antivirus Throughput ²	5 Gbit/s	5 Gbit/s	8 Gbit/s	8 Gbit/s	8 Gbit/s	13 Gbit/s
Concurrent sessions (HTTP1.1) ¹	6,000,000	6,000,000	8,000,000	10,000,000	10,000,000	12,000,000
New sessions per second (HTTP1.1) ¹	200,000	250,000	300,000	350,000	400,000	400,000
IPsec VPN Throughput ¹ (AES-128 + SHA1, 1420-byte)	9 Gbit/s	12 Gbit/s	15 Gbit/s	18 Gbit/s	18Gbit/s	18 Gbit/s
Virtual firewalls	200	200	500	500	500	1,000
Fixed port	8 x GE(RJ45)+4 x GE (SFP)		2 x 10GE (SFP+)+8 x GE(RJ45)+8 x GE (SFP)		4 x 10GE (SFP+)+16 x GE(RJ45)+8 x GE (SFP)	
Expansion Slots	2 x WSIC		6 x WSIC		5 x WSIC	5 x WSIC
Interface module	WSIC: 2 x 10GE (SFP+)+8 x GE (RJ45), 8 x GE (RJ45), 8 x GE (SFP) ,4 x GE (RJ45) BYPASS					
HDD	Optional supports 300 GB or 600 GB or 1200 GB hard disks (RAID1 and hot swappable).					

1. Performance is tested under ideal conditions based on RFC2544, 3511. The actual result may vary with deployment environments.

2. Antivirus, IPS, and SA performances are measured using 100 KB HTTP files.

3. USG6680-DC doesn't support 600 GB and 1200 GB hard disk.

USG9500 Series Terabit-level Next-Generation Firewall



USG9520



USG9560



USG9580

In the dawn of cloud computing age, the cloud computing based on virtualization and high-speed network is considered as a revolution of the Internet. However, challenges arise to network security in the implementation of cloud computing and cause concerns.

- How can we control mass access in the cloud computing age?
- How can we ensure border security for cloud data centers?
- How can we ensure the security of dynamic virtualization in the cloud?

USG9500 is a security gateway developed for organizations deploying Cloud Data Centers such as cloud service providers, enterprises data centers, and organizations with large-scale core data networks. USG9500 delivers the impressive performance, dedicated security and dynamic policies required for a dynamic Cloud IT environment. Organizations with large-scale data centers can enjoy the benefits of increased capacity, high reliability and flexibility made possible by Cloud and have peace of mind with the Cloud security enabled by the Huawei USG9500.

Specifications

Model	USG9520	USG9560	USG9580
Hardware			
Expansion slot	3 (SPU + LPU)	8 (SPU + LPU)	16 (SPU + LPU)
MPU	2, HA mode		
SPU	Firewall SPU, IPS SPU		
Port type	12 × GE (SFP/RJ45), 20 × GE (SFP), 24 × GE (SFP), 1 × 10 GE (XFP), 2 × 10 GE (XFP), 5 × 10GE (SFP+), 6 × 10GE (SFP+), 12 × 10GE (SFP+), 1 × 40GE(CFP) , 3 × 40GE(QSFP+), 1 × 100GE(CFP)		

USG6000V Virtual Integrated Service Gateway

Product Overview

With the wide application of cloud computing technology, IT and CT are rapidly converged. Consequently, requirements increase sharply for public and private cloud deployment, quick service provisioning, on-demand service migration, and tailored attack defense. Conventional service gateways with dedicated hardware can hardly meet the deployment requirements of the cloud network architecture.

The USG6000V virtual integrated service gateway provides various gateway service capabilities, such as vFW, vIPsec, vLB, vIPS, vAV, and vURL filtering. All security functions are virtualized. Multiple tenants can share virtual resources. Therefore, you can deploy USG6000Vs flexibly based on tenants' demands, meeting the security compliance requirements.

Product Specifications

Model	USG6000V1	USG6000V2	USG6000V4	USG6000V8
Virtual Machine Resource Requirements¹				
Hypervisor	Xen 4.4 VMware ESXi 5.5 and later Linux KVM, kernel 2.6.32 and later Huawei FusionSphere, kernel 2.6.32 and later			
vCPU ²	1	2	4	8
Memory (GB)	2 GB	4 GB	8 GB	12 GB
Storage (min/max)	2 GB/2 TB	2 GB/2 TB	2 GB/2 TB	2 GB/2 TB
Interface number of vNICs (min/max)	2/16	2/16	2/16	2/16

1: Virtual Machine Resource Requirements refer to the requirements for resources provided for deployed VMs. The requirements cover vCPU, memory, disk, and virtual interface resources.

2: vCPU refers to a logical CPU virtualized from an Intel x86 64-bit CPU that supports VT technology. One core corresponds to two vCPUs.

NIP6300&6600 Series Next-Generation Intrusion Prevention Systems

Product Overview

HUAWEI NIP6300/6600 series is an advanced, new generation intrusion prevention system (NGIPS) designed to provide application and service security for enterprises, IDCs, campus networks, and carriers.

The NIP6000 provides context, application, and content awareness capabilities and defends against unknown threats to better protect network infrastructures, bandwidth performance, servers, and clients.

Appearance



Specifications

Model	NIP6610	NIP6330	NIP6620	NIP6650	NIP6680
Performance	Mid-range FE	Low-end Gigabit	Mid-range Gigabit	High-end Gigabit	Mid-range 10Gigabit
Scalability					
IPS throughput	500Mbit/s	1.0Gbit/s	2.0Gbit/s	6.0Gbit/s	15.0Gbit/s
Fixed ports	4GE+2Combo	8GE+4SFP	8GE+4SFP	8GE+4SFP	4 x 10GE +16GE+8SFP
Height	1U				3U
Dimensions (mm)	442 x 421 x 43.6				442 x 415 x 130.5

Model	NIP6610	NIP6330	NIP6620	NIP6650	NIP6680
Weight	10 KG				24 KG
Hard disk	Optional. Supports one 300 GB hard disk (hot swappable).				Optional. Supports one 300 GB hard disk (RAID1 and hot swappable).
Redundant power supply	Optional				Standard
AC power supply	100 V to 240 V				
DC power supply	-			-48 V to -60 V	
Power consumption	170 W				350 W
Operating environment	<ul style="list-style-type: none"> • Temperature <ul style="list-style-type: none"> » 0°C to 45°C (without optional hard disk) » 5°C to 40°C (with optional hard disk) • Humidity <ul style="list-style-type: none"> » 10% to 90% 				

SVN5800 Series Secure Access Gateway



SVN5850 / SVN5830 Secure Access Gateway



SVN5880 / SVN5860 Secure Access Gateway

Product Overview

The SVN5800 is the newest security access gateway of Huawei. Built on years of R&D and design experience in communications and networking, the SVN uses a carrier-grade high-availability hardware platform and embedded secure real-time operating system and meets the demanding international certification standards. The SVN series provides secure solutions, such as remote access, mobile working, branch office interconnection, and access through multimedia tunnels for enterprises, governments, and carriers.

Specifications

Model	SVN5830	SVN5850	SVN5860	SVN5880
Maximum number of concurrent SSL VPN users	6000	12,000	40,000	50,000
Maximum number of concurrent SSL VPN connections	15,000	30,000	150,000	150,000
IPSec VPN throughput	3Gbit/s	3Gbit/s	18Gbit/s	18Gbit/s
Concurrent IPSec VPN connections	4000	4,000	15,000	15,000
Maximum number of virtual gateways	256	256	512	512
I/O				
Fixed ports	8GE+4SFP		4*10GE+16GE+8SFP	
Expansion slot	2WSIC		5WSIC	
Expansion card type	WSIC: 2 × 10GE (SFP+) +8 × GE (RJ45), 8 × GE (RJ45) 8 × GE (SFP) , 4 × GE (RJ45) BYPASS			

FireHunter6000 Series Sandbox

Product Overview

Advanced Persistent Threats (APTs) often use social engineering to obtain contact information and send phishing emails to unsuspecting people. They exploit security vulnerabilities in Internet of Things (IoT) devices, and hide, without being detected, in high-value business assets to steal or compromise target information. Attacks are commonly seen in compromised infrastructure, such as the finance sector, resource suppliers, and government agencies, affecting people's livelihoods. Before launching attacks, perpetrators are usually well-prepared and wait patiently for their opportunity. Once attacks are launched, perpetrators usually use technologies, such as advanced evasion techniques in combination, to exploit known vulnerabilities. This makes the security devices that detect attack traffic ineffective.

Huawei FireHunter 6000 series sandbox products (hereinafter referred to as Huawei FireHunter) are a family of APT detection systems. They reassemble network traffic mirrored by switches or traditional security devices, and detect files transferred over networks in virtualized environments to detect unknown malicious files. Through credit scanning, real-time behavior analysis, big data-based correlation analysis, and cloud-end technologies, Huawei FireHunter collects and analyzes the static and dynamic behavior of target software programs to provide accurate detection results with the help of a unique behavior model library. Based on the results, Huawei FireHunter detects, blocks, and visualizes suspicious traffic streams, effectively preventing the spread of unknown threats and protecting business's core information assets. Huawei FireHunter is especially useful to finance and government agencies, resource providers, and high-tech enterprises.

Appearance



Huawei FireHunter 6000 series sandbox product

Specifications

Model	FireHunter 6000
Hardware configuration	<ul style="list-style-type: none">• x86 server in a 2-U rack• Memory of no less than 128 GB• Two power modules for redundancy• Hard drive with a capacity of no less than 2 TB• SSD drive with a capacity of no less than 128 GB• 8 x GE electrical ports• 2 x 10GE optical ports
Performance	<ul style="list-style-type: none">• 70,000 files (non-web pages) per day or 36,000 web pages per hour• Average detection response time of less than 30 seconds

AntiDDoS1600 Series DDoS Protection System

Precise Protection, Second-Level Response, In-Line Deployment, Layered Defense



AntiDDoS1650



AntiDDoS1680

Solution Overview

As the Internet and IoT thrive, DDoS attacks are developing new characteristics:

- Attacks increase in frequency and traffic volume.
- An era of reflection attacks emerges, and reflection amplification attacks, such as NTP, SSDP, and DNS attacks are devouring limited enterprise and data center bandwidths.
- IoT devices can be used to construct Botnets for initiating large-scale attacks.
- Targets of DDoS attacks are developed from large enterprises to various industries.
- Attacks become more diversified, with volumetric and application attacks mixed to invalidate defense at a single layer.

In response to these characteristics, Huawei rolls out the AntiDDoS1600 DDoS protection system, which employs the big data analytics technology and supports modeling for 60+ types of network traffic to offer second-level attack response and comprehensive defense against 100+ types of attacks. The AntiDDoS1600 can be deployed on a user network in in-line mode to defend against volumetric and application attacks in real time.

When attack traffic exceeds the bandwidth or defense capability of a local scrubbing device, the AntiDDoS1600 associates with the AntiDDoS device of the upstream carrier or ISP to defend against flood attacks and guarantee service continuity.

Interface and Hardware Parameters

Model	AntiDDoS1650	AntiDDoS1680
Protection performance	Up to 5Gbps, 3Mpps	Up to 8Gbps, 7Mpps
Deploy mode	In-line; Out-of-path(static defense); Out-of-patch(Dynamic defense)	
Function	Options for detecting or cleaning	
Dimensions (H × W × D)	442 × 421 × 44.4 (1U)	442 × 470 × 130.5 (3U)

Model	AntiDDoS1650	AntiDDoS1680
Standard interface	8 × GE(RJ45)+4 × GE(SFP)	16 × GE(RJ45)+8 × GE(SFP)+4 × 10GE(SFP)
Expansion slot	2 × WSIC	5 × WSIC
Expansion interface subcard type	<ul style="list-style-type: none"> • 8 × GE(RJ45) • 8 × GE(RJ45)+2 × 10GE(SFP+) • 8 × GE(SFP) • 4 × GE(RJ45) Bypass card 	<ul style="list-style-type: none"> • 8 × GE(RJ45) • 8 × GE(RJ45)+2 × 10GE(SFP+) • 8 × GE(SFP) • 4 × GE(RJ45) Bypass card
Power supply	Single AC power supply. Options for 2 × AC redundant, hot swap power supplies.	2 × AC redundant, hot swap power supplies 2 × DC redundant, hot swap power supplies
Power Consumption	170W	350W
External Bypass	<ul style="list-style-type: none"> • Multi mode or single mode GE link • Multi mode or single mode 10GE link 	

AntiDDoS8000 Series DDoS Protection System

Terabit-Level Capacity, Second-Level Response, Precise Protection, Value-added Operation



AntiDDoS8030



AntiDDoS8080



AntiDDoS8160

Solution Overview

As the Internet and IoT thrive, DDoS attacks are developing new characteristics:

- Attacks increase in frequency and traffic volume, and the peak attack traffic is up to 600 Gbps in 2015.
- Reflection amplification attacks spread across the world, congesting links.
- Low-rate application-layer attacks target precisely at service systems like e-finance or gaming.

Reflection amplification and low-rate application-layer attacks are gaining momentum, and layered defense becomes the first choice in anti-DDoS. Huawei AntiDDoS8000 employs big data analysis to conduct modeling for 60+ types of traffic, offering Terabit-level protection, second-level response, and comprehensive defense against 100+ types of attacks. It works with Huawei cloud cleaning center to deliver layered cleaning, providing full-fledged protection that covers network link bandwidths and online services.

Interface and Hardware Parameters

Model	AntiDDoS8030	AntiDDoS8080	AntiDDoS8160
Protection performance	Up to 120 Gbps	Up to 720 Gbps	Up to 1440 Gbps
Protection performance of each slot	Up to 80 Gbps, 60 Mpps	Up to 160 Gbps, 60 Mpps	Up to 160 Gbps, 60 Mpps
Expansion slot	3	8	16
Dimensions (H x W x D)	175 mm x 442 mm × 650 mm (DC, 4 U) 220 mm x 442 mm x 650 mm (AC, 5 U)	620 mm x 442 mm x 650 mm (14 U)	1420 mm x 442 mm x 650 mm (32 U)
Expansion LPU type	LPUF-120, 2 sub-slots LPUF-240, 2 sub-slots		
Expansion interface subcard type	24 x GE (SFP or RJ45); 5 x 10GE (SFP+); 6 x 10GE (SFP+); 12 x 10GE (SFP+); 1 x 40GE (CFP); 1 x 100GE (CFP)		
Power supply	DC: -48 V AC: 175 V to 264 V; 50/60 Hz		
Availability	Dual-MPU; 99.999% carrier-class high availability		

LogCenter Security Event Management Center

Product Overview

Massive application systems and network devices are deployed in an enterprise, including hosts, databases, other application systems, switches, and firewalls. Due to varying device log formats, poor intelligibility, and difficulties in storing massive logs, major security risks cannot be promptly detected from logs.

Government agencies and industrial organizations provide guidance and use internal control laws and standards to impose higher requirements on the completeness, accuracy, and effectiveness of run logs and user logs.

LogCenter:

- Provides a platform for collecting, storing, and auditing multiple types of large-scale logs in a unified manner.
- Supports log management of Huawei and other vendors.
- Provides industry-leading NAT tracing function and security event analysis.

Product Specifications

Performance			
Maximum log recording speed (standalone mode)	250,000 EPS		
Maximum number of NEs supported by the LogCenter	2000		
Recommended Server Model	LogCenter All-In-One	LogCenter Analyzer	LogCenter Collector
Height	2 U		
Dimensions (H x W x D) mm	86.1 mm (2 U) x 447 mm x 748 mm		
Weight (full configuration)	30 kg	27 kg	30 kg
Fixed ports	4 x USB, 1 x VGA, 1 x Console, 1 x MGT, 8 x GE		
Memory	32 GB		

Recommended Server Model	LogCenter All-In-One	LogCenter Analyzer	LogCenter Collector
Storage space	2 x 300 GB SAS, 12 x 6-TB SATA	2 x 300 GB SAS, 6 x 2-TB SATA	2 x 300 GB SAS, 10 x 6-TB SATA
RAID	RAID 1 & RAID 6		
Redundant power modules	Standard		
AC power supply	100 V to 240 V; 50/60 Hz; 9 A to 4.5 A		
DC power supply	-48 V to -60 V; 26 A		
Maximum power	750 W AC/800 W DC		
Operating environment	Operating temperature: 5°C to 45°C (41°F to 113°F) Operating humidity: 8% RH to 90% RH non-condensing		
Non-operating environment (storage environment)	Storage temperature: -40°C to +65°C (-40°F to 149°F) Storage humidity: 5% RH to 95% RH non-condensing		
Authentication	CCC, RCM, CE, VCCI, FCC, IC, UL, BIS		

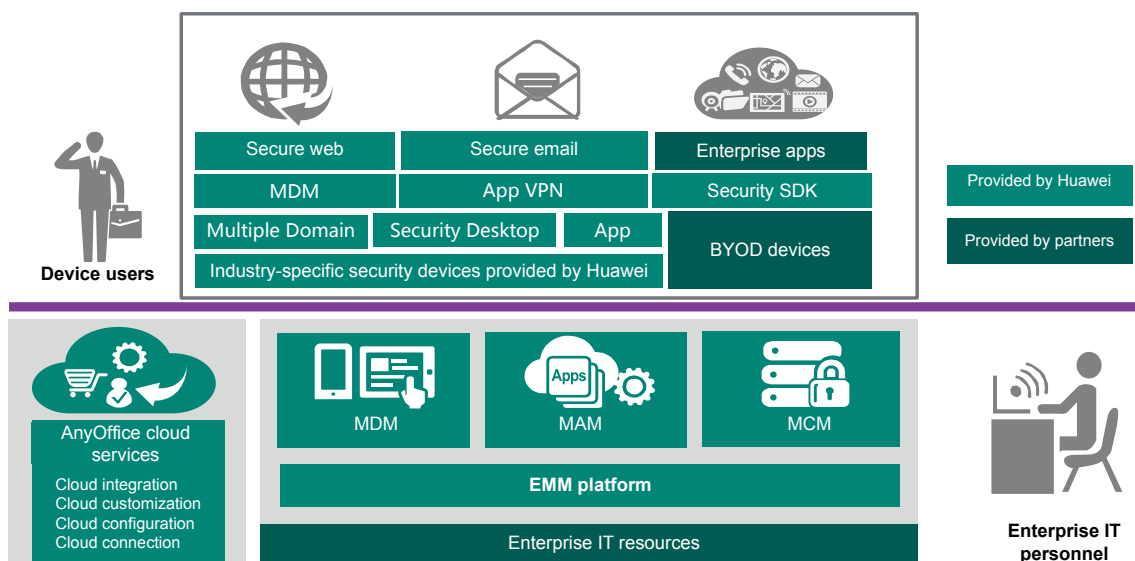
Enterprise Mobile Security Solution

Trend and Challenge

In 2015, 1.3 billion employees around the world have brought to work their own mobile devices, such as the iPhone, iPad, or Android devices. Bring Your Own Device (BYOD) is gradually becoming the new norm, and people start to enjoy the freedom of any device. However, the open and smart mobile devices also bring security and management challenges, such as malicious code infection, co-existence of personal and enterprise applications, data leak risks, and heterogeneous operating systems.

Architecture and Key Components

Mobile security and management essentially resolve three issues: identity, privacy, and compliance. Focusing on these key issues, Huawei provides enterprises with the most secure and user-friendly management solution in the industry.



Components

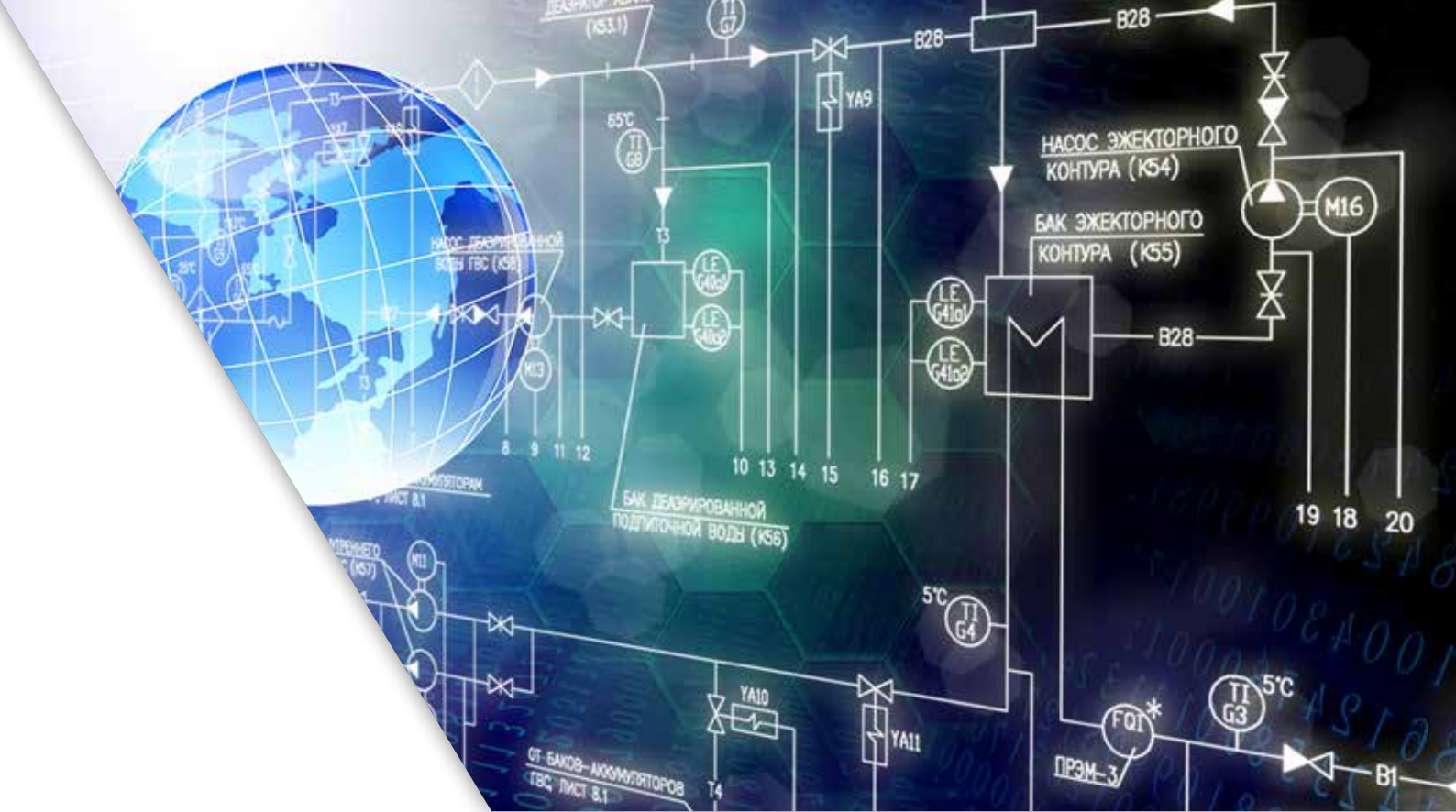
Component	Product
Mobile client	AnyOffice Agent
Mobile security access gateway	AnyOffice Access Entry
Service manager	Service Manager
Service controller	Service Controller
Database server	EMM Database
Smart mobile device	Huawei Media Pad

Operating Systems Supported by AnyOffice Agent

Device	Required Version
iPad/iPhone	iOS 9.0 or later
Android mobile phone (Huawei, Samsung, or others)	Android 5.0 or later
Android tablet (Huawei, Samsung, or others)	Android 5.0 or later

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eSight Network



eSight Network

Product Overview

With the development of enterprise network applications and the expansion of network scale, a large number of routers, gateways, and wireless local area network (WLAN) devices are used on enterprise campus and branch networks. Enterprises must provide multiple mobile offices, rather than a fixed location, for their employees, and support diversified services, complicating network management. They urgently need a unified network management system to improve efficiency and ensure normal operation of enterprise services.

Huawei eSight Network is based on the following concepts: topology-centric, simplified management, and improved operation and maintenance (O&M) efficiency. eSight Network provides an all-round, open, and unified management platform, and various service components, to implement unified management of devices, services, and applications.

Product Features

1. Protecting enterprise investments

- eSight Network uniformly manages devices of various types from multiple vendors, bringing high-level ease of use for network administrators.
- eSight Network is composed of a unified platform and optional components that can be selected based on enterprise characteristics, facilitating fast expansion.

2. Improving O&M efficiency

- Fast network deployment
 - » Network administrators do not need to memorize commands but use the smart configuration tool instead to complete device configurations in batches. The configuration efficiency is improved.
 - » The group-based performance monitoring solution classifies devices with the same characteristics into the one group to monitor the same performance indicators. After a device is added to a group, eSight Network automatically applies matching monitoring policies to the device.
 - » eSight Network provides unified configuration templates and pages for wired and wireless users to improve configuration efficiency.
- Visualized routine maintenance
 - » Topology-centric all-round monitoring clearly displays key fault and performance information.
 - » Visualized service, traffic, and security trend allow users to obtain network status and quality.
- Efficient troubleshooting
 - » eSight Network quickly diagnoses users' network faults and provides troubleshooting suggestions based on Huawei best practices to help network administrators efficiently rectify the faults.
 - » eSight Network supports drill-down fault analysis to locate the root causes step by step.
 - » eSight Network uses the Packet Conservation Algorithm for Internet (iPCA) technology to timely measure network quality and accurately locate faults.

3. Improving network security

- Visualized network security
 - » eSight Network provides redundancy policy analysis, matching analysis, risk analysis, and comprehensive analysis to refine security policies, improving network security and firewall efficiency.
- System security hardening
 - » eSight Network improves system security by guaranteeing the access side, server side, and device communication security.
 - » eSight Network supports dual-node hot standby to ensure high availability.

4. Full lifecycle WLAN management

- » Supports full lifecycle WLAN management including visible planning, three-step service provisioning, 360-degree WLAN monitoring, and search-centric one-click fault diagnosis, helping administrators effectively deploy and manage WLANs.
- » eSight Mobile uses the universal mobile information platform to manage and control WLANs anytime, anywhere. It can also interconnect with a third-party system to build a win-win ecosystem.
- » eSight Network provides terminal location and passenger traffic analysis functions and displays terminal positions in the heat map. It also supports the Bluetooth location software development kit (SDK) to provide an open precise location interface, helping shopping malls, supermarkets, and the educational industry to provide value-added services.

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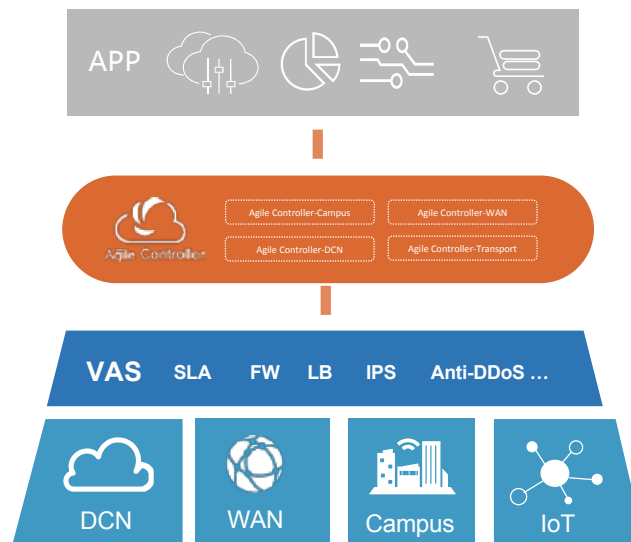
SDN Controller



SDN Controller

Agile Controller 3.0 is a Huawei software-defined networking (SDN) controller for the business scenarios of data center network, campus network, wide area network (WAN), and Internet of Things (IoT). Based on a unified software platform, Agile Controller 3.0 consists of the following products:

- Agile Controller-DCN for data centers
- Agile Controller-Campus for campus networks and branch interconnection
- Agile Controller-WAN for WAN IP networks
- Agile Controller-Transport for WAN and optical transport networks



Product Overview

Agile Controller-DCN

Mainly used in data centers, it is an enabler for data center network architecture evolution.

- Open architecture, flexible integration.
 - Support standard OpenStack cloud platform
 - Support mainstream computing platform vCenter / SystemCenter
 - Support independent interface to achieve virtual network deployment and service orchestration
- Refined O&M
 - Overlay network visualization: application, logic, physical three-tier management; Overlay path, connectivity, quality monitoring
- Fully optional fabric
 - Network overlay, hybrid overlay, host overlay, three options to meet different demands

Agile Controller-Campus

Mainly used in campus networks and branch interconnection, it provides the user access management, the network cloud-based management and value-added service capabilities.

In the campus scenario, Agile Controller-Campus supports the following features:

- Self-operation
 - The industry's first SP self operated, enabling SaaS, selling boxes -> selling services
- Full Lifecycle Automation
 - Automated planning, deployment & optimization & inspection; reduce OPEX 87%
- Large Capacity Management
 - Unified management of multi-tenants, manage up to 1 million devices and 10 million terminals
- Open and Value-added
 - Open API, connect to third-party applications, and enhance business innovation

In the branch interconnection scenario, Agile Controller-Campus supports the following features:

- Any Network Access
 - Any combination of 3G/LTE, MPLS, Internet, Serial etc.
 - Support rich UNI/NNI interface: GE/ISDN/FXS/FXO/..., EPON/GPON/10GE/LTE/...
 - Leveraging the internet and links to reduce interconnection costs by over 50%
- Application-based intelligent route selection: enhance the application experience
- Simple, efficient and secure lease line service
 - E2E cloud management lease line service, improve efficiency, saving TCO
 - Security virtualization VAS with full functions that can be flexibly combined

Agile Controller-WAN

Mainly used in WAN (IP core), DCI scenarios, it quickly provisions VPN services over the WAN and optimizes intra-AS traffic transmission.

- Monetize IPRAN by agile MPLS VPN
Service automation: service-driven tunnel automatically calculated and minute-level services provisioning.
Guaranteed SLA: visible & optimizable SLA, proactive to guarantee end-user experience; flexEthernet slicing ensures the SLA and 50 μ s low latency.
- Centralized control
Minute-level service provisioning, network load balancing
- Visible & optimizable SLA
Real-time monitoring service SLA: bandwidth, status, latency, packet loss, jitter, and connectivity.
Support re-optimization to actively improve end-user experience on detection of SLA degradation.

Agile Controller-Transport

Mainly used on transport networks, it is an enabler for transport network architecture evolution.

- MS-OTN + TSDN build high-quality cloud leased line
- Service automation: achieve minute-level service provisioning
- Optimal latency routing: provide promissory and guaranteed latency

