Huawei NetEngine AR5710-S Series Enterprise Router Data Sheet

NetEngine AR5710-S series enterprise routers are fixed-form-factor routers developed by Huawei for branches of enterprises to deliver high performance required by enterprise customers.

Product Overview

Huawei's next-generation NetEngine AR5710-S series enterprise routers use high-performance multi-core processors and a non-blocking switching structure, helping to deliver higher forwarding performance than the industry average.

The NetEngine AR5710-S series consists of models such as NetEngine AR5710-S8P2X, NetEngine AR5710-S8T2X, NetEngine AR5710-S8T2X-LTE4EA, NetEngine AR5710-S8T2XE, NetEngine AR5710-S8T2XE-LTE4EA-T, NetEngine AR5710-S10T1X2, which can meet networking requirements of enterprises of different scales.

 NetEngine AR5710-S8P2X	• Fixed WAN ports：2*10GE SFP+/2.5GE Copper Combo • Fixed LAN ports：4*GE electrical，4*GE Combo(can be configured as WAN) • PoE++ • Dimensions (H x W x D)：43.6 mm x 321 mm x 210 mm
 NetEngine AR5710-S8T2X	• Fixed WAN ports：2*10GE SFP+/2.5GE Copper Combo • Fixed LAN ports：4*GE electrical，4*GE Combo(can be configured as WAN) • Dimensions (H x W x D)：43.6 mm x 321 mm x 210 mm
 NetEngine AR5710-S8T2X-LTE4EA	• Fixed WAN ports：2*10GE SFP+/2.5GE Copper Combo • Fixed LAN ports：4*GE electrical，4*GE Combo(can be configured as WAN) • LTE: FDD LTE, TDD LTE • Dimensions (H x W x D)：43.6 mm x 321 mm x 210 mm
 NetEngine AR5710-S8T2XE	• Fixed WAN ports：2*10GE SFP+/2.5GE Copper Combo • Fixed LAN ports：4*GE electrical，4*GE Combo(can be configured as WAN) • Dimensions (H x W x D)：43.6 mm x 321 mm x 210 mm
 NetEngine AR5710-S8T2XE-LTE4EA-T	• Fixed WAN ports：2*10GE SFP+/2.5GE Copper Combo • Fixed LAN ports：4*GE electrical，4*GE Combo(can be configured as WAN)

	• LTE: FDD LTE, TDD LTE • Dimensions (H x W x D)：43.6 mm x 321 mm x 210 mm
 NetEngine AR5710-S10T1X2	• Fixed WAN ports：1*10GE SFP+/2.5GE Copper Combo, 2*GE electrical • Fixed LAN ports：4*GE electrical，4*GE Combo(can be configured as WAN) • 2 * SIC Card • Dimensions (H x W x D)：43.6 mm x 442 mm x 225.2 mm

Features and Highlights

Features and Highlights of NetEngine AR5710-S

Service Requirement	Features and Highlights
High performance	• ARM multi-core processor and non-blocking switching architecture • Industry-leading performance, providing low latency required by key services
High reliability	• Link backup for enterprise services, improving reliability • Fault detection and locating within milliseconds, reducing service downtime
Easy O&M	• Multiple management modes such as management through iMaster NCE-Campus and SNMP, simplifying network deployment and reducing OPEX
SD-WAN Ready	• Built-in SD-WAN solution, building cost-effective and business-friendly connections over the Internet • Application identification and link quality-based intelligent traffic steering, ensuring key application experience • Multi-link traffic steering and Dual-gateway sites flexible networking • End-to-end IPsec encryption, ensuring secure service transmission

Architecture Highlights of Huawei NetEngine AR5710-S

Highlight	Benefits
Multi-core processor	High-speed WAN connections and powerful routing and computing capabilities, improving L4-L7 service processing efficiency

Product Specifications

Specifications	NetEngine AR5710-S8P2X	NetEngine AR5710-S8T2X	NetEngine AR5710-S8T2X-LTE4EA	NetEngine AR5710-S8T2XE	NetEngine AR5710-S8T2XE-LTE4EA-T	NetEngine AR5710-S10T1X2
SD-WAN service performance*	600 Mbps	600 Mbps	600 Mbps	700 Mbps	700 Mbps	600 Mbps
Forwarding performance with	1G bps	1G bps	1G bps	1G bps	1G bps	1G bps

Specifications	NetEngine AR5710-S8P2X	NetEngine AR5710-S8T2X	NetEngine AR5710-S8T2X-LTE4EA	NetEngine AR5710-S8T2XE	NetEngine AR5710-S8T2XE-LTE4EA-T	NetEngine AR5710-S10T1X2
services						
Fixed WAN ports	2*10GE SFP+/2.5GE Copper Combo	2*10GE SFP+/2.5GE Copper Combo	2*10GE SFP+/2.5GE Copper Combo	2*10GE SFP+/2.5GE Copper Combo	2*10GE SFP+/2.5GE Copper Combo	1*10GE SFP+/2.5GE Copper Combo, 2*GE electrical
Fixed LAN ports	4*GE electrical, 4*GE Combo	4*GE electrical, 4*GE Combo	4*GE electrical, 4*GE Combo	4*GE electrical, 4*GE Combo	4*GE electrical, 4*GE Combo	4*GE electrical, 4*GE Combo
PoE	Y	-	-	-	-	-
PoE power supply	PoE++ (90W) , Maximum output power of 125W	-	-	-	-	-
SIC slot	-	-	-	-	-	2*SIC
Auxiliary or console port	1* RJ45 Console	1* RJ45 Console	1* RJ45 Console	1* RJ45 Console	1* RJ45 Console	1* RJ45 Console
USB port	1*USB2.0	1*USB2.0	1*USB2.0	1*USB2.0	1*USB2.0	1*USB2.0
Memory	2GB	2GB	2GB	4GB	4GB	2GB
Flash	1GB	1GB	1GB	1GB	1GB	1GB
TPM	-	-	-	-	Y	-
Dimensions without packaging (H x W x D)	43.6 mm x 321 mm x 210 mm	43.6 mm x 321 mm x 210 mm	43.6 mm x 321 mm x 210 mm	43.6 mm x 321 mm x 210 mm	43.6 mm x 321 mm x 210 mm	43.6 mm x 442 mm x 225.2 mm
Dimensions with packaging (H x W x D)	465 mm x 380 mm x 90 mm	465 mm x 380 mm x 90 mm	465 mm x 380 mm x 90 mm	465 mm x 380 mm x 90 mm	465 mm x 380 mm x 90 mm	550 mm x 355 mm x 90 mm
Weight without packaging	2.402 kg	1.902 kg	1.978 kg	1.902 kg	1.978 kg	3.11 kg
Rack	IEC	IEC	IEC	IEC	IEC	IEC
Occupied rack space	1U	1U	1U	1U	1U	1U
Rated input	100V to 240V,	100V to	100V to 240V,	100V to	100V to	100V to 240V,

Specifications	NetEngine AR5710-S8P2X	NetEngine AR5710-S8T2X	NetEngine AR5710-S8T2X-LTE4EA	NetEngine AR5710-S8T2XE	NetEngine AR5710-S8T2XE-LTE4EA-T	NetEngine AR5710-S10T1X2
voltage (V)	50 Hz/60 Hz	240V, 50 Hz/60 Hz	50 Hz/60 Hz	240V, 50 Hz/60 Hz	240V, 50 Hz/60 Hz	50 Hz/60 Hz
Input voltage range(V)	90V to 264V	90V to 264V	90V to 264V	90V to 264V	90V to 264V	90V to 264V
Maximum input current (A)	3A	1A	1A	1A	1A	2A
Maximum output power (W)	180W	32W	32W	32W	32W	70W
Typical power consumption(W)	157W	12W	14W	12W	14W	15W
Maximum power consumption(W)	162W	15W	19W	15W	19W	20W
Fan modules	Built-in unpluggable fan modules	Natural heat dissipation, without fans	Natural heat dissipation, without fans	Natural heat dissipation, without fans	Natural heat dissipation, without fans	Built-in unpluggable fan modules
Airflow	Left to right	-	-	-	-	Left to right
Noise	50dB	-	-	-	-	-
Operating temperature	0℃ ~ 45℃	0℃ ~ 45℃	0℃ ~ 45℃	0℃ ~ 45℃	0℃ ~ 45℃	0℃ ~ 45℃
Operating humidity	5% to 95% (non-condensing)	5% to 95% (non-condensing)	5% to 95% (non-condensing)	5% to 95% (non-condensing)	5% to 95% (non-condensing)	5% to 95% (non-condensing)
Operating altitude	< 5000 m	< 5000 m	< 5000 m	< 5000 m	< 5000 m	< 5000 m
Storage temperature	–40°C to + 70°C	–40°C to + 70°C	–40°C to + 70°C	–40°C to + 70°C	–40°C to + 70°C	–40°C to + 70°C
Operating altitude	< 5000 m	< 5000 m	< 5000 m	< 5000 m	< 5000 m	< 5000 m

*: The SD-WAN performance model is EVPN + IPsec + QoS, with the performance data being the sum of bidirectional flows.

Software Features and Protocols

Item	NetEngine AR5710-S Series
Basic function	DHCP server/client/relay, NAT, and sub-interface management
LAN	IEEE 802.1P, IEEE 802.1Q, IEEE 802.3, VLAN management, MAC management, STP/RSTP/MSTP
IPv4 unicast routing	Routing policies, static routes, RIP, OSPF, IS-IS, BGP, IP FRR

Item	NetEngine AR5710-S Series
IPv6 unicast routing	Static routes, routing policies, RIPng, OSPFv3, IS-ISv6, BGP4+
Basic IPv6 function	IPv6 ND, IPv6 PMTU, IPv6 FIB, IPv6 ACL, ICMPv6, DNSv6, DHCPv6
Multicast	IGMP V1/V2/V3, PIM SM, PIM DM, MSDP
Tunneling	GRE tunnel, NAT STUN，IPsec
WAN optimization	A-FEC*
VPN	GRE VPN,SD-WAN EVPN
QoS	Priority mapping, traffic policing (CAR), traffic shaping, congestion avoidance, congestion management, MQC (traffic classifier, traffic behavior, and traffic policy), hierarchical QoS, Smart Application Control (SAC)
Security	ACL (v4/v6), firewall, AAA authentication, RADIUS authentication, HWTACACS authentication, PKI, broadcast storm suppression, ARP security, ICMP attack defense, CPCAR, attack source tracing，AV*，IPS*，URL Filter*
Management and maintenance	Upgrade management, device management, GTL, SNMP (v1/v2c/v3), RMON, NTP, USB-based/DHCP deployment, Email deployment, NETCONF/YANG, CLI, TCP FPM, NQA

* : Only AR5710-S8T2XE、AR5710-S8T2XE-LTE4EA-T support this function.

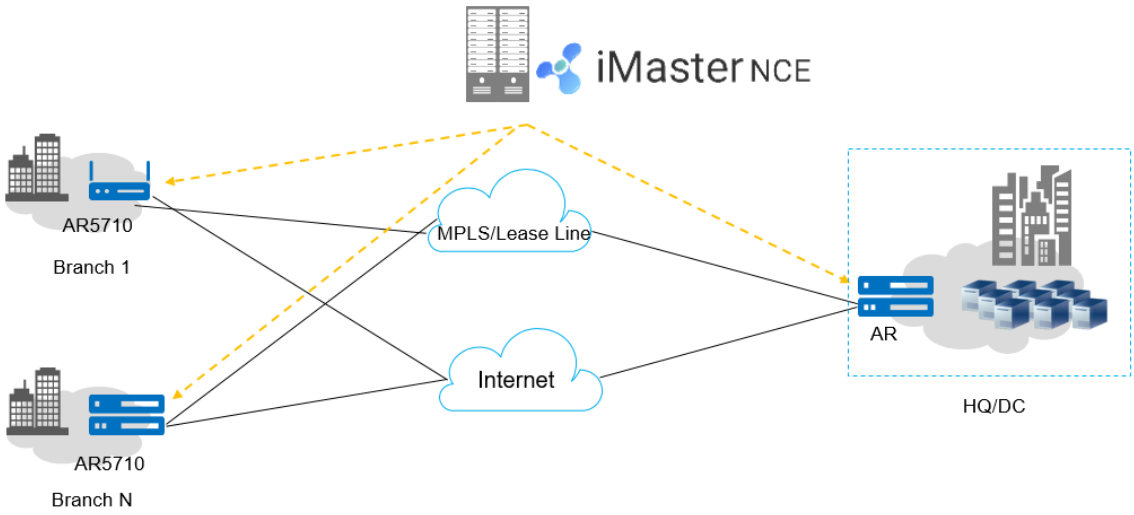
Safety and Regulatory Standards

Item	NetEngine AR5710-S Series
EMC standards compliance	•CISPR32 Class A •EN 55032 Class A •CISPR24 •EN 55024 •ETSI EN 300 386 •AS/NZS CISPR32 Class A •FCC Part 15 Subpart B Class A •ICES 003 Class A •IEC 61000-3-2 •EN 61000-3-2 •IEC 61000-3-3 •EN 61000-3-3 •GB 9254 •VCCI-CISPR32 Class A
Environmental standards compliance	•RoHS •REACH •WEEE
Security standards compliance	•IEC 60950-1 •EN 60950-1 •UL 60950-1 •CSA C22.2 No 60950-1 •GB 4943.1

Application Scenarios

In the SD-WAN solution, the AR5710-S functions as the gateway of the enterprise headquarters or branch and supports extensive physical links, such as MPLS and Internet links. iMaster NCE-Campus provides visualized management for the AR5710-S. The AR5710-S integrates a wide range of SD-WAN features such as intelligent application identification and intelligent traffic steering, delivering better service experience to enterprises. For details about Huawei SD-WAN Solution, visit https://e.huawei.com/en/solutions/business-needs/enterprise-network/sd-wan.

SD-WAN networking



Ordering Information

The configuration of the NetEngine AR5710-S series includes host selection and software configuration.

- Host

  Select the device model according to the uplink interface type and service requirements.

- Software

- The basic software and licensed software are available. The basic software provides basic functions, such as routing, switching, voice, and security. The licensed software provides additional functions, such as AC.

Host	Ordering Information
NetEngine AR5710-S8P2X	AR5710-S8P2X, 2*10GE SFP+/2.5GE Base-T Combo WAN,4*GE Base-T (POE++) LAN,4*GE Combo LAN,1*USB2.0
NetEngine AR5710-S8T2X	AR5710-S8T2X, 2*10GE SFP+/2.5GE Base-T Combo WAN,4*GE Base-T LAN,4*GE Combo LAN,1*USB2.0
NetEngine AR5710-S8T2X-LTE4EA	AR5710-S8T2X, 2*10GE SFP+/2.5GE Base-T Combo WAN,4*GE Base-T LAN,4*GE Combo LAN, 1*LTE4EA,1*USB2.0
NetEngine AR5710-S8T2XE	AR5710-S8T2XE, 2*10GE SFP+/2.5GE Base-T Combo WAN,4*GE Base-T LAN,4*GE Combo LAN,1*USB2.0
NetEngine AR5710-S8T2XE-LTE4EA-T	AR5710-S8T2XE-NRCN, 2*10GE SFP+/2.5GE Base-T Combo WAN,4*GE Base-T LAN,4*GE Combo LAN, 1*LTE4EA,1*USB2.0
NetEngine AR5710-S10T1X2	AR5710-S10T1X2, 1*10GE SFP+/2.5GE Base-T Combo WAN,2*GE Base-T WAN,4*GE Combo LAN,4*GE Base-T LAN,2*SIC,1*USB2.0
License	**Ordering Information**

More Information

For more information, visit https://e.huawei.com/en/ or contact us in the following ways:

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

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Huawei Technologies Co., Ltd.

Address: Huawei Industrial Base

Bantian, Longgang Shenzhen 518129

People's Republic of China

Website: www.huawei.com

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