

Overview

Huawei's next-generation NetEngine AR6000 series enterprise routers use high-performance multi-core processors and a nonblocking switching structure, helping to deliver higher forwarding performance than the industry average. The NetEngine AR6000 also integrates functions such as SD-WAN, routing, switching, VPN, security, and MPLS, ensuring diversified and cloud-based services are fully supported.

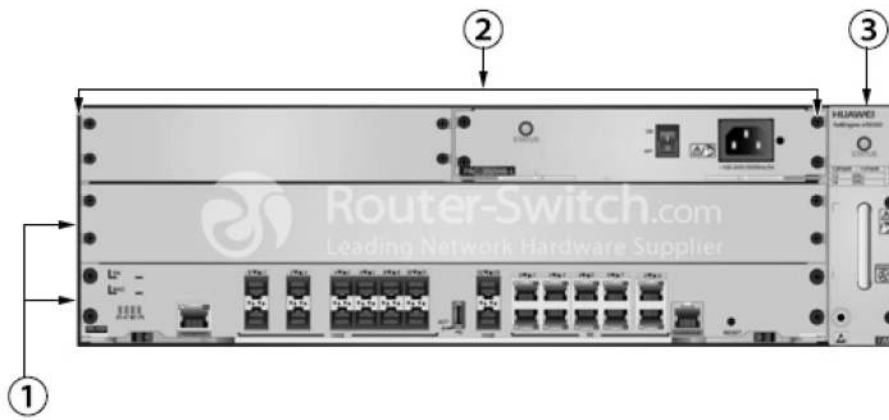
Quick Specs

Table 1 shows the Quick Specs.

Product Code	AR6300
Processor	16-Core
Forwarding Performance (LAN - > WAN + WAN - > LAN,NAT + ACL + QoS,IMIX)	SRU-400H: 10 Gbps SRU-600H: 12 Gbps
IPsec performance (IMIX)	SRU-400H: 6 Gbps SRU-600H: 7.5 Gbps
Fixed WAN ports	SRU-400H: WAN: 14*10GE SFP+(compatible with GE SFP) +10*GE RJ45 (All WAN ports can be configured as LAN) SRU-600H: WAN: 14*10GE SFP+(compatible with GE SFP) +10*GE RJ45 (All WAN ports can be configured as LAN)
Fixed LAN ports	\
SIC slots	4
WSIC slots	2 (default)/4 (maximum)
XSIC slots	4 (default)/6 (maximum)
USB port	1*USB2.0
Auxiliary or console port	1 x RJ45 console port
Memory	SRU-400H: 8 GB SRU-600H: 16 GB
Flash memory	SRU-400H: 2 GB SRU-600H: 4 GB
Hot swapping	Supported

Product Details

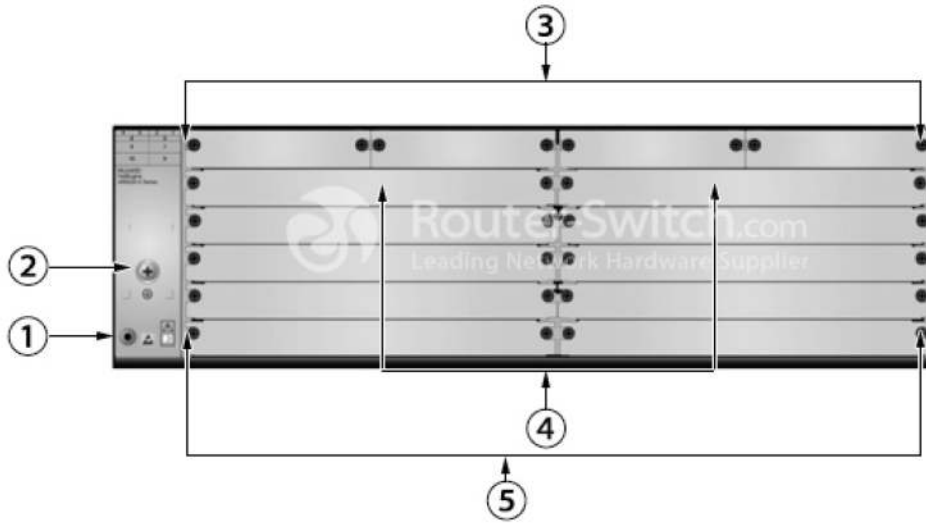
Figure 1 shows the front panel of Huawei AR6000.



Note:

(1)	Two SRU slots	(3)	Fan module slot
(2)	Two power module slots		

Figure 2 shows the back panel of Huawei AR600.



Note:

(1)	ESD jack	(4)	Two WSIC slots
(2)	Ground point	(5)	Two XSIC slots
(3)	Four SIC slots		

The Accessories

Table 2 shows the recommended elements for the AR6300.

Models	Descriptions
PAC-350WB-L	350W AC Power Module
AR0MPSPDP3500	350W DC Power Module
PAC-700WB-L	700W AC Power Module
AR0MWMF9TT00	8-Port 100M-RJ45+1-Port 1000M-RJ45-L2/L3 Ethernet Electrical Interface Card
AR-9ES2-W	8 Port 100BASE-RJ45 and 1 Port 1000BASE- RJ45 L2 Ethernet Interface Card
AR0MXEGFTA00	24-Port 1000M-RJ45-L2/L3 Ethernet Electrical Interface Card

AR01WEG4SB	4-Port 1000BASE-SFP-L2 Ethernet Interface Card
AR-4ES2G-S	4-Port 1000BASE-RJ45 L2 Ethernet Interface Card
AR0MSEG1CA00	1-Port GE Combo WAN Interface Card
AR-4GECS-W	4-Port GE Combo WAN Interface Card
AR0MSEF2TA00	2-Port FE WAN Interface Card
AR-2X10GL-W	2-Port 10GE Optical Ports Interface Card
AR01WEG4TA	4-Port 1000BASE-RJ45-L3 Ethernet WAN Interface Card
AR01WEG4SA	4-Port 1000BASE-SFP-L3 Ethernet WAN Interface Card
AR0MSDME1A00	1-Port Channelized E1/T1/PRI/VE1 Multiflex Trunk Interface Card
AR0MSDME2A00	2-Port Channelized E1/T1/PRI/VE1 Multiflex Trunk Interface Card
AR01WDCE4A	4-Port Channelized E1/PRI Multiflex Trunk Interface Card
AR01WDCE8A	8-Port Channelized E1/PRI Multiflex Trunk Interface Card
AR0MSDE11A00	1-Port Fractional Channelized E1/T1 WAN Interface Card
AR0MSDE12A00	2-Port Fractional Channelized E1/T1 WAN Interface Card
AR01WDFE4A	4-Port Fractional Channelized E1 WAN Interface Card
AR01WDFE8A	8-Port Fractional Channelized E1 WAN Interface Card
AR01WAE14A	4-Port E1 ATM IMA Interface Card
AR-1E3T3M-W	1-Port Channelized/Unchannelized E3/T3 WAN Interface Card
AR0MSDSA1A00	1-Port Synchronous/Asynchronous WAN Interface Card
AR0MSDSA2A00	2-Port Synchronous/Asynchronous WAN Interface Card
AR-8SA-W	8-port synchronous/asynchronous WAN interface card
AR0MWDAS8A01	8-Port-Asynchronous WAN Interface Card
AR01SDGW1A	3G WCDMA HSPA+7 Interface Card
AR-1LTE-L-S	WCDMA LTE Interface Card
AR-6EM-W	6-port E&M trunk interface card
AR-1CSTM1-W	1-Port 155M Channelized POS Optical Interface Card-WSIC
AR-1STM1-W	1-Port 155M Packet over SDH/Sonet Optical Interface Card
AR-1STM4-W	1-Port 622M Packet over SDH/Sonet Optical Interface Card
AR-4STM1-W	4-Port 155M Packet over SDH/SONET Optical Interface Card
AR0MSDS1XA00	1-Port ISDN S/T WAN Interface Card
AR0MSVS2XA00	2-Port ISDN S/T Voice Interface Module
AR0MSVA4B1A0	4-Port FXS and 1-Port FXO Voice Interface Card
AR01WVADXA	16-Port FXS Voice Interface Card
AR01WVAHXA	32-Port FXS Voice Interface Card
AR01SVB4XA	4-Port FXO Voice Interface Card

AR-1VE1-S	1-Port Voice E1 Interface Card
AR0MSLA1XA01	1-Port ADSL2+ ANNEX A/M WAN Interface Module
AR0MSLS1XA00	1-Port 4 Pair G.SHDSL WAN Interface Card
AR01SLV1XA	1-Port VDSL2 over POTS WAN Interface card
AR0MSOPP2A00	1-Port GPON/EPON Dual-Mode Interface Card
eSFP-FE-LX-SM1310	Optical Transceiver,eSFP,100M/155M,Single-mode Module(1310nm,15km,LC)
S-SFP-FE-LH40-SM1310	Optical Transceiver,eSFP,FE,Single-mode Module(1310nm,40km,LC)
S-SFP-FE-LH80-SM1550	Optical Transceiver,eSFP,FE,Single-mode Module(1550nm,80km,LC)
SFP-FE-LX-SM1310-BIDI	Optical Transceiver,eSFP,FE,BIDI Single-mode Module(TX1310/RX1550,15km,LC)
SFP-FE-LX-SM1550-BIDI	Optical Transceiver,eSFP,FE,BIDI Single-mode Module(TX1550/RX1310,15km,LC)
eSFP-GE-SX-MM850	Optical Transceiver,eSFP,GE,Multi-mode Module(850nm,0.55km,LC)
SFP-GE-LX-SM1310	Optical Transceiver,eSFP,GE,Single-mode Module(1310nm,10km,LC)
S-SFP-GE-LH40-SM1310	Optical Transceiver,eSFP,GE,Single-mode Module(1310nm,40km,LC)
S-SFP-GE-LH40-SM1550	Optical Transceiver,eSFP,GE,Single-mode Module(1550nm,40km,LC)
S-SFP-GE-LH80-SM1550	Optical Transceiver,eSFP,GE,Single-mode Module(1550nm,80km,LC)
SFP-GE-LX-SM1310-BIDI	Optical Transceiver,eSFP,GE,BIDI Single-mode Module(TX1310/RX1490,10km,LC)
SFP-GE-LX-SM1490-BIDI	Optical Transceiver,eSFP,GE,BIDI Single-mode Module(TX1490/RX1310,10km,LC)
LE2MGSC40DE0	Optical Transceiver,eSFP,GE,BIDI Single-mode Module(TX1310/RX1490,40km,LC)
LE2MGSC40ED0	Optical Transceiver,eSFP,GE,BIDI Single-mode Module(TX1490/RX1310,40km,LC)
OMXD30000	Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)
OSX010000	Optical Transceiver,SFP+,10G,Single-mode Module(1310nm,10km,LC)
OSX040N01	Optical Transceiver,SFP+,10G,Single-mode Module(1550nm,40km,LC)

Compare to Similar Items

Table 3 shows the comparison.

Product Code	AR6120	AR6140-9G-2AC	AR6280	AR6300
Processor	4-Core	4-Core	16-Core	16-Core
Forwarding Performance (LAN - > WAN + WAN - > LAN, NAT + ACL + QoS, IMIX)	2 Gbps	2 Gbps	SRU-400H: 10 Gbps SRU-600H: 12 Gbps	SRU-400H: 10 Gbps SRU-600H: 12 Gbps
IPsec performance (IMIX)	2 Gbps	2 Gbps	SRU-400H: 6 Gbps SRU-600H: 7.5 Gbps	SRU-400H: 6 Gbps SRU-600H: 7.5 Gbps
Fixed LAN ports	8 x GE RJ45 (can be configured as WAN)	2 x GE SFP + 3 x GE RJ45 (can be configured as WAN)	\	\

SIC slots	2	4	4	4
WSIC slots	0 (default)/1 (maximum)	0 (default)/2 (maximum)	2 (default)/4 (maximum)	2 (default)/4 (maximum)
XSIC slots	\	\	2(default)/4 (maximum)	4 (default)/6 (maximum)
USB port	1 x USB 3.0 (compatible with USB 2.0) + 1 x USB 2.0	1 x USB3.0 (compatible with USB 2.0)	1*USB2.0	1*USB2.0
Auxiliary or console port	1 x RJ45 console port	1 x RJ45 console port	1 x RJ45 console port	1 x RJ45 console port
Memory	2 GB	2 GB	SRU-400H: 8 GB SRU-600H: 16 GB	SRU-400H: 8 GB SRU-600H: 16 GB
Flash memory	1 GB/ 512MB	1 GB	SRU-400H: 2 GB SRU-600H: 4 GB	SRU-400H: 2 GB SRU-600H: 4 GB
Router dimensions, With no mounting bracket installed (H x W x D)	44.5mm x 390mm x 232.5mm	44.5 mm x 442 mm x 420 mm	88.1 mm x 442 mm x 470 mm	130.5 mm x 442 mm x 470 mm
Router dimensions, With mounting bracket installed (H x W x D)	44.5mm x 482.6mm x 232.5mm	44.5 mm x 482.6 mm x 572.5 mm	88.1 mm x 482.6 mm x 470 mm	130.5 mm x 482.6 mm x 470 mm

Specification

AR6300 Specification

System Parameters

Processor	16-Core
Forwarding Performance (LAN - > WAN + WAN - > LAN,NAT + ACL + QoS,IMIX)	SRU-400H: 10 Gbps SRU-600H: 12 Gbps
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Fixed LAN ports	\
SIC slots	4
WSIC slots	2 (default)/4 (maximum)
XSIC slots	4 (default)/6 (maximum)
USB port	1*USB2.0
Auxiliary or console port	1 x RJ45 console port
Memory	SRU-400H: 8 GB SRU-600H: 16 GB

Flash memory	SRU-400H: 2 GB SRU-600H: 4 GB
Hot swapping	Supported
Dimensions and Weight	
Router dimensions,With no mounting bracket installed (H x W x D)	130.5 mm x 442 mm x 470 mm
Router dimensions,With mounting bracket installed (H x W x D)	130.5 mm x 482.6 mm x 470 mm
Packaging dimensions (H x W x D)	201 mm x 573 mm x 640 mm
Rack	IEC
Occupied rack space	3U
Power Specifications, Power Consumption, and Heat Dissipation	
Rated input voltage range (AC)	100 V to 240 V
Rated input frequency (AC)	50 Hz/60 Hz
Maximum input voltage range (AC)	90 V to 264 V
Maximum input current (AC)	5 A
Maximum output power (AC)	350 W
Power supply redundancy	Hot-swappable dual power supplies
Typical power consumption	130 W
Maximum power consumption	275 W
Fan module	Independent pluggable fan modules
Airflow	Left to right
Noise level	66.1 dB
Environment Parameters	
Operating temperature	0°C to 45°C
Operating humidity	5% to 95% (non-condensing)
Operating altitude	< 5000 m (16404.2 ft.)
Storage temperature	-40°C to +70°C
Storage altitude	< 5000 m (16404.2 ft.)
Software Features and Protocols	
Basic function	DHCP server/client/relay, PPPoE server/client, NAT, and sub-interface management
LAN	IEEE 802.1P, IEEE 802.1Q, IEEE 802.3, VLAN management, VLAN aggregation, MAC management, STP
WLAN (AC)	AP management (AC discovery, AP access, and AP management), CAPWAP, WLAN user management, WLAN radio management (802.11a/b/g/n/ac), WLAN QoS (WMM), WLAN security (WEP, WPA, WPA2, key management)
IPv4 unicast routing	Routing policies, static routes, RIP, OSPF, IS-IS, BGP

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
IPv6 tunneling	Manual tunnel, automatic tunnel, GRE tunnel, IPv6 over IPv4 tunnel, 6 to 4 tunnel, ISATAP
Multicast	IGMP v1/v2/v3, PIM-SM, PIM-DM, MSDP, MBGP, IPv6 PIM, MLD
MPLS	LDP, MPLS L3 VPN, VLL, PWE3, static LSP, dynamic LSP, MPLS TE, IP FRR, LDP FRR, TE FRR
VPN	IPsec VPN, GRE VPN, DSVPN, A2A VPN, L2TP VPN, L2TPv3 VPN
QoS	DiffServ mode, MPLS 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), domain-based stateful firewall, 802.1X authentication, MAC address authentication, portal authentication, AAA authentication, RADIUS authentication, HWTACACS authentication, PKI, broadcast storm suppression, ARP security, ICMP attack defense, URPF, CPCAR, blacklist, attack source tracing, online behavior management, IPS, URL filtering
Management and maintenance	Upgrade management, device management, web-based network management, GTL, SNMP (v1/v2c/v3), RMON, NTP, CWMP, Auto-Config, URL-based/USB-based/DHCP deployment, NETCONF/YANG, CLI, NetStream, IP FPM, TCP FPM, TWAMP, IP accounting, NQA
Safety and Regulatory Standards	
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
Safety standards compliance	IEC 60950-1 EN 60950-1 UL 60950-1 CSA C22.2 No 60950-1 GB 4943.1