Huawei AR3600 Series
Enterprise Routers Datasheet

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

As the core product in Huawei Enterprise 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 enterprise router 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.

AR3670 Provide X86 platform

- WAN speed with services: 4.5Gbit/s
- Slot: 2*SIC + 7*WSIC
- Processor: 6*2.2 GHz Intel processor
- Built-in hard disk: 1T
- 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 enterprise router 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

Product Highlights

① ICT Deep Integration, Reducing the TCO

- Integrates routing, switching, security, WLAN, and VPN, meeting diversified requirements of enterprises and maximizing the return on investment (ROI).
- Supports various access modes and uplink interfaces, adapts to various terminals, offers different rates, allows flexible access, and is interchangeable with AR G3 series boards, protecting investments.
- Provides a high-performance computing and large-capacity storage system, and allows various applications to be dynamically loaded, without the need to deploy servers independently. This saves investments and facilitates management.

② Innovative Architecture, Implementing Value-added Services

- Uses the SDN&NFV architecture for the first time in industry, and implements lifecycle management of ICT resources such as the application deployment, monitoring, and deletion through the Agile Controller.
- Supports virtualization technology, provides a flexible and scalable application integration capability, shortens service deployment, and implements value-added services.
- Supports the OpenStack interfaces to integrate with third-party management software.

③ Simplified Deployment and Easy O&M

- USB-based deployment and plug-and-play.
- Detects faults with no delay, locates faults with no errors, and rectifies faults immediately.
- Manages massive devices in a centralized manner, greatly simplifying branch service deployment and lowering network maintenance costs.
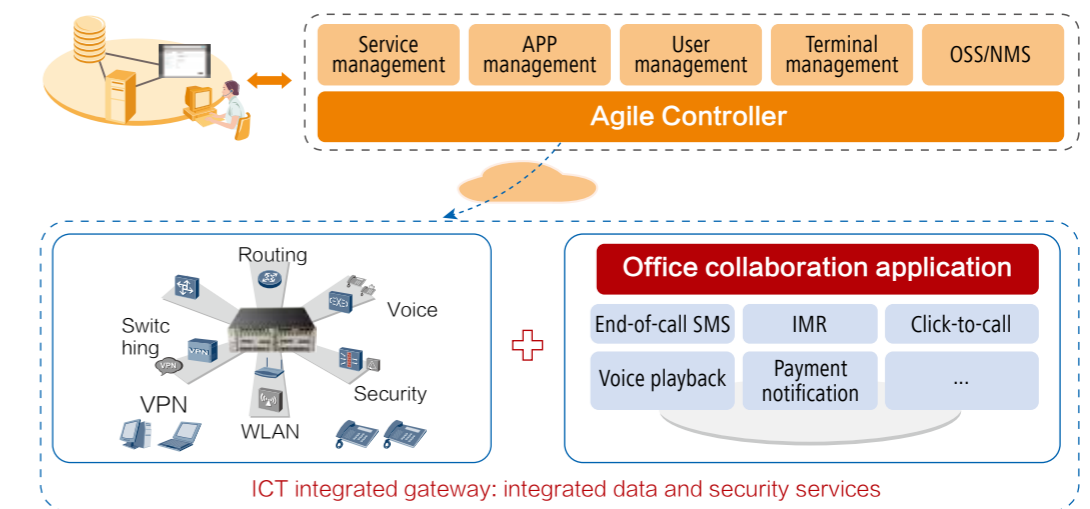
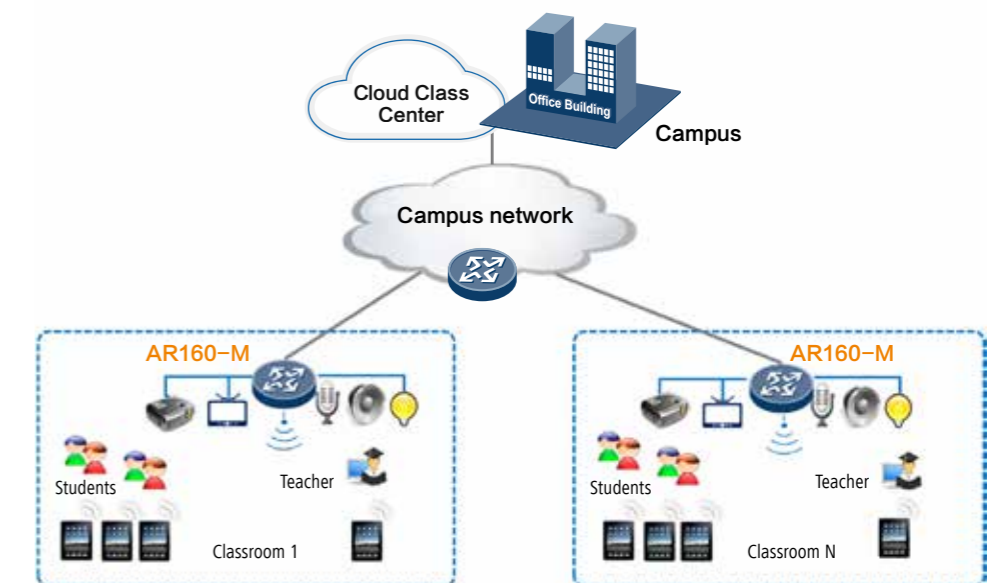## Typical Application

ICT Integrated Gateway

The AR3600 series enterprise router integrates routing, switching, VPN, WLAN, and security functions, which meets requirements of diversified enterprise services, saves customer investments and equipment room space, and facilitates O&M.

Based on the X86 platform, the AR3600 allows enterprise customers to dynamically load IT applications, such as enterprise office applications, WAN acceleration, unified communications, Windows, and other applications, achieving application, network, and information openness and implementing value-added services.

With deep ICT convergence, the AR3600 implements integration and sharing of network and IT resources, which changes the traditional network construction mode and management mode, reduces the TCO, and improves value-added services.

Smart School Platform

The AR3600 series enterprise router provides strong openness and scalability, various applications, and centralized management. It can be deployed in schools. With the flexible and open X86 platform, the AR3600 can quickly integrate third-party application software, such as the teaching software and courseware player. It provides more and more application services for school information, realizing information teaching management. The AR3600 connects the school network to the education network and Internet to implement education resource sharing and fast query.

Product Specifications

Specification	AR3670
Hardware specifications	
Service forwarding performance***	4.5 Gbit/s
Number of recommended users	2000
SIC slot	2
WSIC slot (default/maximum**)	7/8
XSIC slot (default/maximum**)	0/6
Management port	One Ethernet port
USB 2.0 port	2
Mini USB port	1
Auxiliary or console port	1
Hard disk	1TB
Memory(default/maximum)	8GB/24GB
Flash	8GB
Virtual Machines	8 (Based on VM, the customers can install Windows OS or Linux OS.)
Maximum power	700 W per power supply (dual power supplies supported)
AC power supply	100 V to 240 V
Power frequency	50/60 Hz
Dimensions (W x D x H)	442 mm x 470 mm x 130.5 mm
Weight	11kg (without power modules and cards)
Ambient temperature	0℃ to 45℃
Environment relative humidity	5% to 95% (non-condensing)
Software specifications	
Basic functions	ARP,DHCP, NAT, and sub-interface management
WLAN (AC)	AP management (AC discovery/AP access/AP management), CAPWAP, WLAN user management, WLAN radio management (802.11a/b/g/n), WLAN QoS (WMM), and WLAN security (WEP/WPA/WPA2/key management)
LAN	IEEE 802.1P, IEEE 802.1Q, IEEE 802.3, VLAN management, MAC address management, MSTP, and so on
IPv4 unicast routing	Routing policy, static route, RIP, OSPF, IS-IS, BGP
IPv6 unicast routing	Routing policy, static route, RIPng, OSPFv3, IS-ISv6,BGP4+

Specification	AR3670
Multicast	IGMP V1/V2/V3, IGMP snooping V1/V2/V3, PIM SM, PIM DM, MBGP, and MSDP
MPLS	LDP, MPLS L3 VPN, VLL, PWE3, static LSP, dynamic LSP, MPLS TE, IP FRR, LDP FRR, and TE FRR
VPN	IPSec VPN, GRE VPN, DSVPN, L2TP VPN
QoS	DiffServ, MPLS QoS, priority mapping, CAR, traffic shaping, congestion avoidance (IP or DSCP priority-based WRED), congestion management (LAN interface: SP/WRR/SP+WRR; WAN interface: PQ/CBWFQ), MQC (traffic classifier, traffic behavior, and traffic policy), HQoS, FR QoS, and hardware QoS
Security	ACL, firewall, 802.1x authentication, MAC address authentication, web authentication, AAA authentication, RADIUS authentication, HWTACACS authentication, broadcast storm suppression, ARP security, ICMP anti-attack, URPF, IP source guard, DHCP snooping, CPCAR, blacklist, attack source tracing, and state-approved algorithms (SM1, SM2, SM3 SCB2 algorithms)
Management and maintenance	Upgrade management, device management, web NMS, GTL, SNMP (v1/v2c/v3), NTP, CWMP, Auto-Config, USB-based deployment, and command line, SSH (v1/v2)

**Note: The maximum number of slots includes the number of combined slots.

***Note: Service performance depending on specific feature configuration.

AR3600 Configuration

Before selecting an AR3600, determine the device model, SRU, cards, and software.

- Device model and SRU

Determine the device model and SRU.

- Card

The interface cards, including SIC, WSIC, and XSIC cards, are installed into service slots. Two SIC slots can be combined into one WSIC slot by removing the guide rail; two WSIC slots can be combined into one XSIC slot by removing the guide rail.

- Software

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

Ordering Information

Begin by ordering the chassis, control board, power supply, and fan module. Then select a DSP card (if required), interface modules, any special licenses as well as any desired accessories (SD card or USB disk).

Tables 5 - 13 list the part numbers to use when ordering components.

Table 5: Chassis Options and Fan Module

AR3670 Chassis Model	Description
AR3670	AR3670,2 SIC,3 WSIC, 4 XSIC, 700W AC Power
AR0B0037BA	AR3670 CHASSIS
AR-HDD1TT-D	HardDisk-1000GB-SATA-7200rpm-2.5"-64M-hot-swap-built-in-Front Panel
M8G-D3R	Memory Module,DDR3L VLP RDIMM,8GB,240pin,1.5ns,1333000KHz,1.35V,ECC,2rank(512M*8bit),Height 18.3mm
AR3670-FAN	Fan Box For AR3670

Table 6: Main Control Board Options

Main Control Board	Description
AR-SRUX5	Service and Router unit

Table 7: Power Supply Module Options

Power Module	Description
PAC-700WB-L	PAC-700WB-L

Table 9: SIC Interface Module Options

Power Module	Description
AR0MSDME1A00	1-Port Channelized E1/T1/PRI/VE1 Multiflex Trunk Interface Card
AR0MSDE11A00	1-Port Fractional Channelized E1/T1 WAN Interface Card
AR0MSDME2A00	2-Port Channelized E1/T1/PRI/VE1 Multiflex Trunk Interface Card
AR0MSDE12A00	2-Port Fractional Channelized E1/T1 WAN Interface Card
AR0MSDSA1A00	1-Port Sync/Async Serial Port Interface Card
AR0MSDSA2A00	2-Port Sync/Async Serial Port Interface Card
AR0MSEG1CA00	1-Port GE Combo WAN Interface Card
AR0MSEF2TA00	2-Port FE WAN Interface Card
AR0MSLA1XA00	1-port ADSL2+ ANNEX A/M WAN Interface Module,Support Wetting Current,Only For Vodafone
AR0MSLA1XA01	1-Port ADSL2+ ANNEX A/M WAN Interface Module
AR0MSLB1XA01	1-Port ADSL2+ ANNEX B/J WAN Interface Module
AR01SLV1XA	1-Port VDSL2 over POTS WAN Interface Module
AR-2VDSL2-S	2-Port VDSL2 over POTS with bonding WAN Interface Card
AR0MSLS1XA00	1-Port 4 Pair G.SHDSL WAN Interface Module
AR0MSDS1XA00	1-Port ISDN S/T WAN Interface Card
AR01SDGW1A	3G HSPA+7 Interface Module
AR0MSOPP2A00	1-Port GPON/EPON Dual-mode Interface Card
AR-1LTE-L-S	WCDMA LTE Interface Card
AR-1LTE-Lo-S	FDD/HSPA+ (700M)Interface Card

Table 10: WSIC and XSIC Interface Module Options

WSIC Interface Module	Description
AR01WAE14A	4-port E1 Inverse Multiplexing for ATM Interface Card
AR01WDFE4A	4-Port Fractional E1 WAN Interface Card
AR01WDFE8A	8-Port Fractional E1 WAN Interface Card
AR01WDCE8A	8-Port Channelized E1/PRI Multiflex Trunk Interface Card
AR01WEG4SA	4-Port 1000BASE-SFP-L3 Ethernet WAN Interface Card
AR01WEG4TA	4-Port 1000BASE-RJ45-L3 Ethernet WAN Interface Card
AR0MWDAS8A01	8-Port Async Serial Port Interface Card
AR-1STM1-W	1-Port 155M Packet over SDH/Sonet Optical Interface Card
AR-4STM1-W	4-Port 155M Packet over SDH/Sonet Optical Interface Card
AR0MWMF9TT00	8-Port 10/100BASE(RJ45) and 1-Port 10/100/1000BASE(RJ45)-L3 Ethernet Switch Interface Card
AR-1STM4-W	1-Port 622M Packet over SDH/Sonet Optical Interface Card
AR-1CSTM1-W	1-Port 155M Channelized Packet over SDH/Sonet Interface Card(WSIC)
AR-1E3T3M-W	1-Port Channelized/Unchannelized E3/T3 WAN Interface Card
AR-8SA-W	8-Port Sync/Async Serial WAN Interface Card
AR-4GECS-W	4-Port GE COMBO WAN Interface Card(support syncE)

Table 11: XSIC Interface Module Options

XSIC Interface Module	Description
AR0MXEGFTA00	24-Port 10/100/1000 BASE (RJ45)-L2/L3 Ethernet Interface Card

Table 12: License Options

License	Description
LAR0DATAE06	AR3600 Value-Added Data Package
LAR0AC06	AR3600 AC Express License
LAR0SECE06	AR3600 Value-Added Security Package
LAR0DSVPN06	AR3600 DSVPN(Dynamic Smart VPN) Function

Table 13: SD Card and USB Disk Options

SD Cards & USB Disks	Description
NUSBDSK01	Storage USB DISK,4GB,USB 2.0,No document

For more information, visit http://enterprise.huawei.com or contact your local Huawei sales office.

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