AR2200 Series Enterprise Routers Brochure

HUAWEI TECHNOLOGIES CO., LTD.

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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, 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.

Table 1: AR2200 Models

AR2201-48FE

- WAN speed with services(IMIX): 200Mbps
- Fixed port: 2xGE (one combo port), 48xFE
- Slot: 1xExpansion slot
- Dimensions (H x W x D): 44.5mm x 442mm x 310mm

AR2202-48FE

- WAN speed with services(IMIX): 200Mbps
- Fixed port: 2xGE (one combo port), 1xE1, 1xSA, 48xFE
- Slot: 1xExpansion slot
- Dimensions (H x W x D): 44.5mm x 442mm x 310mm

AR2204

- 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

AR2240

- WAN speed with services(IMIX):
  - » 600 Mbps (with SRU40*)
  - » 800 Mbps (with SRU60*)
  - » 1800 Mbps (with SRU80*)
  - » 4.5Gbps(with SRU200*)
- Hardware-based Traffic Management (with SRU80* and SRU200*)
- Hardware-based HQoS (with SRU80* and SRU200*)
- Fixed port: 3 x GE(2 x Combo) /4 x GE Combo+ 2 x 10GE
- 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 and LTE 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.

Features and Benefits

Applications in one box, Reduce TCO

The AR2200 routers reduce equipment and deployment costs due to the integrated routing, switching, 3G, voice, and security functions into a single device. At the same time, The AR2200 realizes enterprises flexible access with rich interfaces adapting to a variety of terminals.

Industry-Leading Voice Quality and User Experience

Enterprise-class voice communication is flexible and efficient, as the AR2200 voice features integrate with data networks.

- Basic voice functions are provided by the built-in PBX, SIP server, and SIP access gateway
- Value-added voice services include multi-party communication, IVR automatic connection, ring-back-tone, parallel ringing, sequential ringing, one number link you (ONLY), bill management, and subscriber management.
- Intelligent call routing enables exceptional voice service reliability.
- The AR2200 routers can be connected with the NGN/IMS/PBX/terminal of major vendors.
- The Quality of Experience (QoE) feature monitors voice service quality in real time.
- Jitter buffer, echo cancellation, and packet loss compensation combine to deliver a superior user experience

Secure Service Access Protects Networks and Users

While delivering enterprise-class network services, the AR3260 router provides robust network security. Comprehensive security solutions include user access control, packet detection, and active attack defense.

- The built-in firewall is the first line of defense.
- Port authentication technologies include 802.1x authentication, MAC address authentication, and portal authentication.
- User and device authentication methods include RADIUS and HWTACACS.
- VPN technologies include IPSec VPN, GRE VPN, DSVPN, L2TP VPN and SSL VPN.

Integration of wireless and wired Functions

Table 2: Wireless Access Modes

Access Mode	Description
WLAN	• Built-in AC function, establish WLAN campus flexibly
3G	• Provides flexible network access by supporting 3G standards, including CDMA2000 EV-DO, and WCDMA • Assures compliance with service level agreements (SLAs) with the Huawei Network Quality Analyzer (NQA) that monitors the real-time status of network links • Ensures reliable service transmission with Security VPN over 3G links
LTE	• 100M LTE enterprise access solutions, high bandwidth experience • Supports transition from 3G networks to LTE networks, preserving customers' investments

Table 3: Wired Access Modes

Access Mode	Description
Fiber	• Allows flexible network access by supporting Gigabit Ethernet and Channelized Packet Over SONET (CPOS) optical interfaces • Meets transmission requirements of bandwidth-intensive services such as voice services, by providing 1 Gbps or 10 Gbps bandwidth • Supports EPON/GPON interface cards
Copper cable	• Preserves customers' investments by supporting legacy interfaces, including xDSL, E1/T1, serial ports, and ISDN interfaces, • Configurable uplink access rates from 64 kbps to 1 Gbps

Better Experience, Business Continuity

Multi-cores architecture, Industry-Leading performance

The AR2200 routers use a multi-core CPU and non-blocking switching structure to provide industry-leading system performance.

- The multi-core CPU speeds up concurrent data and voice service processing, supporting a large number of services.
- Achieves maximum traffic throughput with non-blocking switching.
- The bus channel bandwidth of a single slot is up to 10 Gbps.
- Delivers high performance and service reliability through independent protocol management, service processing, and data switching.

To meet enterprise requirements for network expansion and rapid service deployment, the AR2200 routers:

- Integrates routing and switching functions to simplify device configuration and maintenance by improving data switching efficiency between interface cards.

Low cost, High reliability

To guarantee the reliability of the equipment layer and network layer, the AR2200 series support hot-swap technology and redundant components design, a series of fault detection and judgment mechanisms, which can shorten the service interruption time.

- Assures service reliability and network stability with hot-swappable interface cards and redundant components, including fan modules.
- Link backup for enterprise services improves reliability.
- MS level Fault detection mechanisms, shorten the service interruption time
- Local survival, improve the voice reliability of branch network

Intelligent Service Deployment

As the enterprise grows, requirements for service deployment increase. To meet these growing demands, the AR2200 routers provide convenient configuration options:

- Mini-USB port to configure the devices using a GUI.
- USB drive to configure devices for plug-and-play.
- Auto-config feature to automatically distribute configurations to devices.

Cooperation platform, On Demand applications

Open Service Platform, Enterprise-level APP

The AR2200 routers provide a unified communication solution for enterprise customers. It uses the Open Service Platform (OSP) to interconnect with third-party IT systems. Customers, agents, third-party vendors, and manufacturers can develop unified communication systems by using the AR2200 routers.

- Integrate and customize services quickly.
- Save money and simplify management, as service integration does not require dedicated servers.
- Services synchronized with cloud-side services and local services are processed locally, which improves service quality and efficiency.

Standard MIB provided by VRP, Simplified Network and Device Management

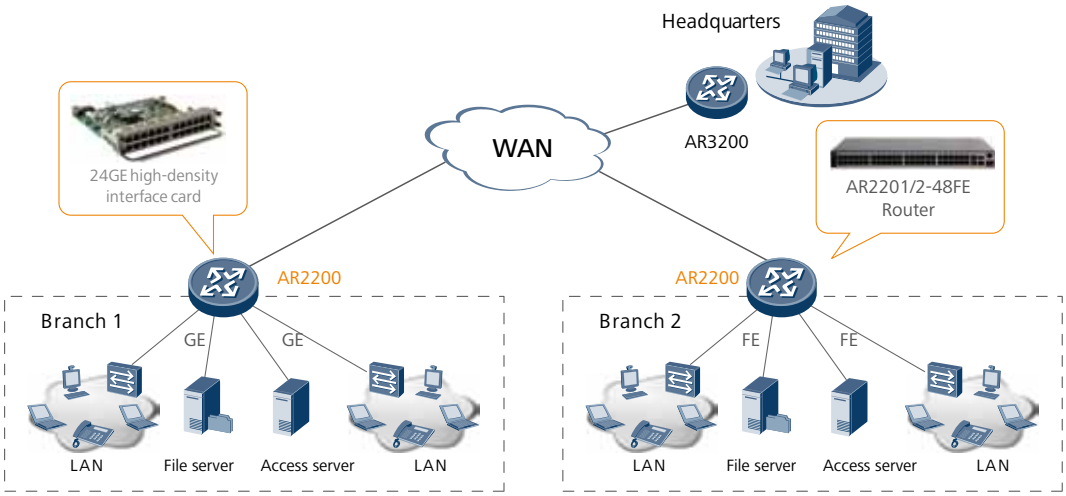
The AR2200 routers make network and device management simple:

- Manage devices easily with the eSight network management system.
- Monitor links in real time using the NQA feature.
- Maintain peak network performance by using the NetStream feature to view traffic characteristics and statistics, as well as optimization according to usage.

Sample Deployments

High-Density Ethernet Access

High-Density GE Access application



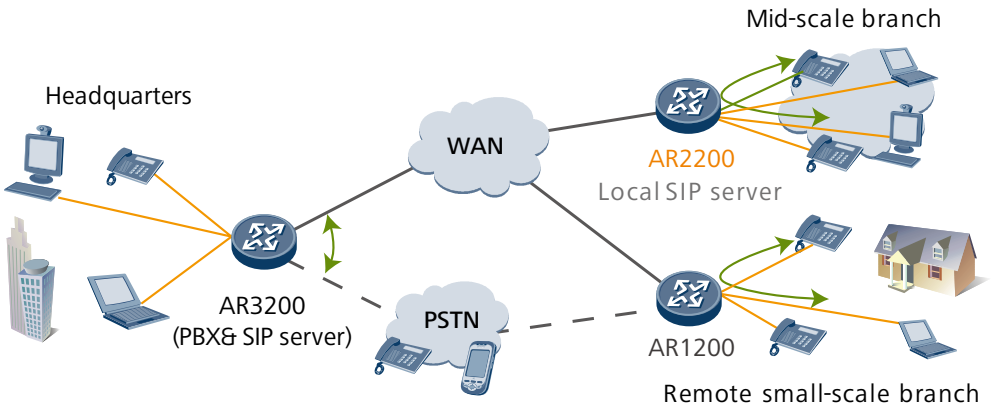
For investment protection, the AR2200 features a highly modular design. In the example above, a high-density GE access interface card is deployed to provide Gigabit speed access at a branch office.

AR2201-48FE and AR2202-48FE are the next-generation routing and switching integrated products of AR2200 series routers. These two new models both integrate 48 Fast Ethernet ports and 2 Gigabit Ethernet ports which can greatly meet the branch high-density Ethernet access requirements. The routing and switching integration device can simultaneously achieve the functionality of the access switches and branch egress router combination. To reduce customer acquisition costs. At the same time can reduce device failure point and network maintenance difficulty.

High-Quality Voice Service

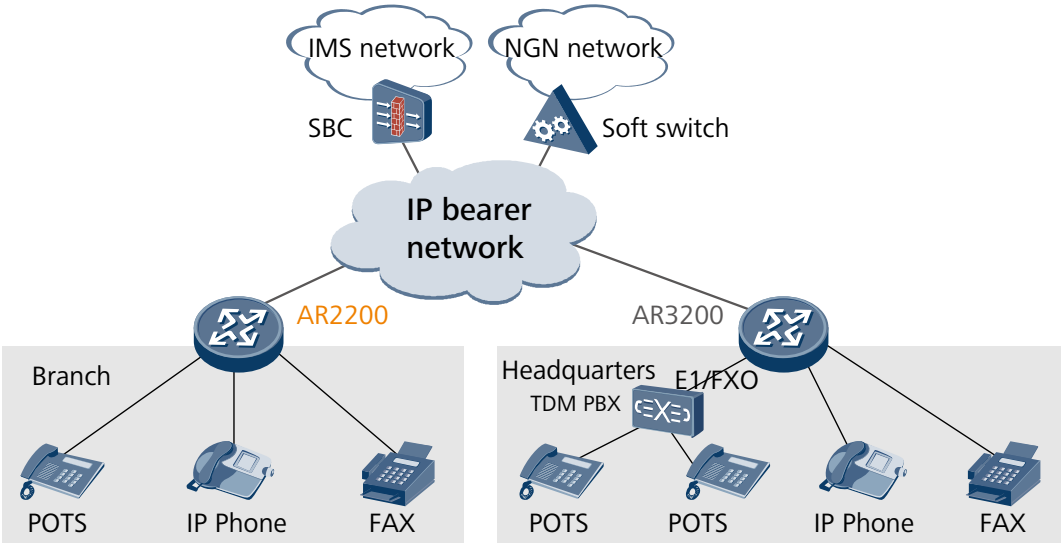
Enterprise customers can use the AR2200 as an IP PBX or SIP voice gateway.

IP PBX Application



To improve communication efficiency, all AR routers include built-in PBX. This feature supports the enterprise main number, Interactive Voice Response (IVR), and bill query functions. An AR1200 router can provide intelligent dialing in a smaller branch office.

SIP Gateway Application

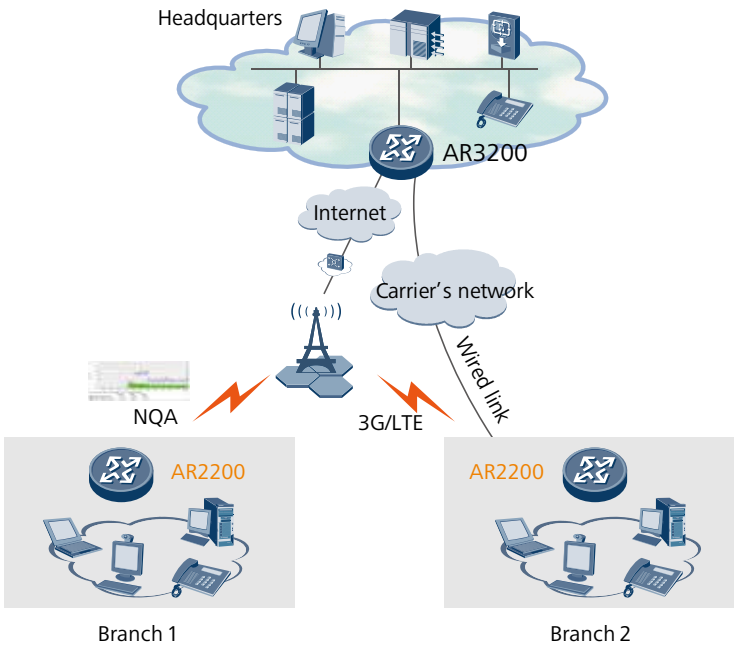


The AR2200 integrates voice, fax, and IP services. For enterprise users, the AR2200 serves as the SIP access gateway for a branch office, transforming phone signals into VoIP signals. The AR2200 uplink interfaces connect to the IP Multimedia Subsystem (IMS) or Next Generation Network (NGN) to allow any media, including phones, handsets, and computers to communicate at any time.

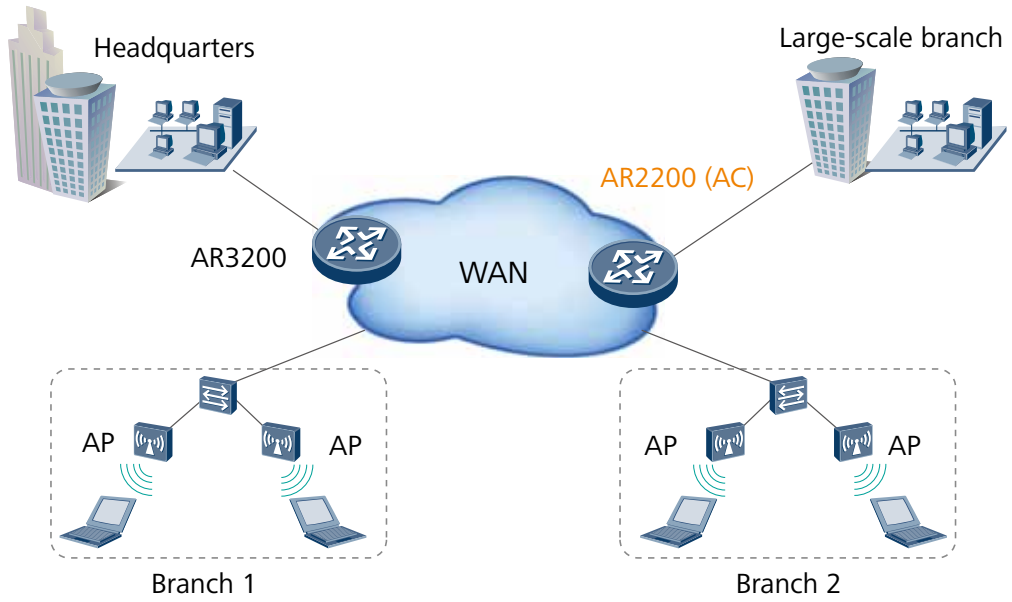
Wireless Access in Branch Offices

3G/LTE Wireless Access Deployment

The AR2200 complies with 3G and LTE standards including CDMA2000 EV-DO, WCDMA and FDD LTE. This can meet the requirements of wireless communication between enterprise branch offices and headquarters. Users can conserve service card slots by using a 3G/LTE USB disk to deploy 3G/LTE services on the AR2200. In addition, the 3G/LTE data link can be used to back up a wired link to protect the xDSL, FE/GE, and ISDN uplinks. The backup link improves network stability and reduces network build-out costs. The Network Quality Analyzer (NQA) monitors 3G link quality, ensuring the network meets Service Level Agreements (SLAs).



Wi-Fi Wireless Access Deployment



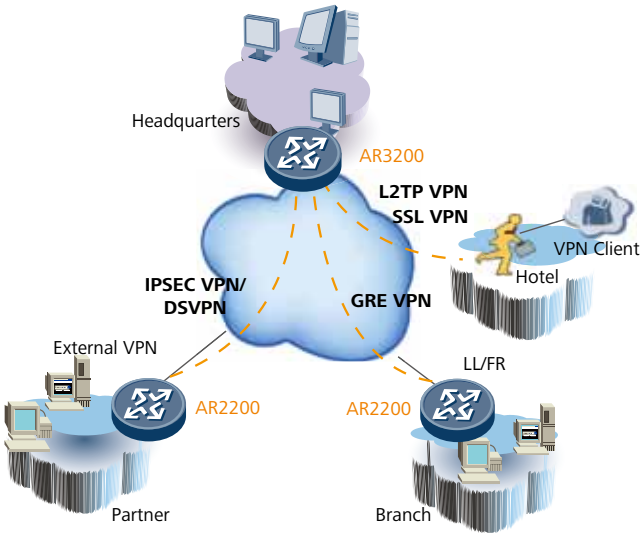
The AR2200 routers integrate AC (Access Controller) functionality, which can manage the wireless AP (Access Point) in wireless LAN. AR2200 supports rich certification and flexible user access control, which can provide security access guarantee for Wi-Fi users. The rich wireless capabilities integrated in one device, this can realize centralized management of wired and wireless networks, to meet the requirements of different scale enterprises networks.

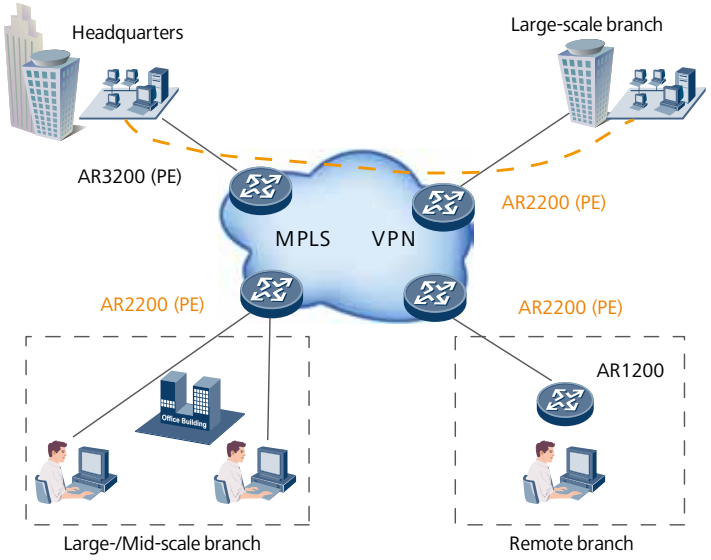
VPNs in Branch Offices and Partner Locations

The AR2200 supports many types of VPN tunnels, including GRE VPN, IPSEC VPN, DSVPN, L2TP VPN, and SSL VPN.

VPN Over the Internet

The AR1200 complies with 3G standards including CDMA2000 EV-DO, and WCDMA, meeting the requirements for wireless communication between enterprise branch offices and headquarters. Users can deploy 3G services on the AR1200 by using a 3G USB disk, thus, conserving service card slots. In addition, the 3G data link can be used to back up a wired link to protect the xDSL, FE/GE, and ISDN uplinks. The backup link improves network stability and reduces network construction costs. The Network Quality Analyzer (NQA) monitors 3G link quality, ensuring the network meets Service Level Agreements (SLAs).





VPN Over an MPLS Network

The AR2200 routers are well-suited to serve as PEs in the branch offices of an enterprise. The MPLS L3 VPN segregates services by type. The AR2200 features flexible deployment, fast distribution, and secure transmission of VPN services, and supports enterprise service operation over networks.

Technical Specifications

Table 4: Technical Specifications

Item	AR2201-48FE/ AR2202-48FE	AR2204	AR2220	AR2240
Hardware				
WAN speed with services	200Mbps	200Mbps	400 Mbps	600 Mbps (With SRU40) 800 Mbps (With SRU60) 1800 Mbps (With SRU80) 4.5Gbps(With SRU200)
Firewall performance (large packets)	900Mbps	900Mbps	1.9 Gbps	5.5 Gbps (With SRU40) 6 Gbps (With SRU60) 9.5 Gbps (With SRU80) 15Gbps(With SRU200)
Device switching capacity	-	10 Gbps	32 Gbps	80 Gbps
Slot switching bandwidth	-	SIC slots 2 Gbps	SIC slots (slot 1,3) 2 Gbps SIC slots (slot 2,4) 5 Gbps WSIC slots 5 Gbps XSIC & EXSIC slots 20 Gbps	SIC slots 2 Gbps WSIC slots 5 Gbps XSIC & EXSIC slots 20 Gbps
Fixed WAN ports	2xGE (1x combo port)	3xGE (1x combo port)	3xGE (1xcombo port)	3 * GE(2 * Combo) /4 * GE Combo+ 2 * 10GE
SIC slots	0	4	4	4

Item	AR2201-48FE/ AR2202-48FE	AR2204	AR2220	AR2240
WSIC slots (default/max**)	0	0/2	2/4	2/4
XSIC slots (default/max**)	0	0	0/2	2/4
EXSIC slot (shared with XSIC slots)	0	0	0	1
DSP slots	-	2	1	0/3
USB 2.0 ports	1	2	2	1/2
Mini-USB ports	1	1	1	1
Serial auxiliary/ console port	1	1	1	1
Memory	512 MB	1 GB	2 GB	2 GB/ 8 GB
Flash	512 MB	512 MB	16 MB	16 MB
Micro SD (default/max)	-	- / 4 GB	2 GB / 4 GB	2 GB/ 4 GB
Maximum power	60 W	150 W	150 W	350 W (Single Power Module) 700 W (Dual Power Module)
AC power	100 V-240 V	100 V-240 V	100 V-240 V	100 V-240 V
Frequency	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz
DC power	-	-	-48 V~-60 V	-48 V~-60 V
Dimensions (height x width x depth)	44.5 mm x 442 mm x 310 mm	44.5 mm x 442 mm x 420 mm	44.5 mm x 442 mm x 420 mm	88.1 mm x 442 mm x 470 mm
Weight	4.8 kg	6 kg(without interface card)	4.95 kg (without power module and interface card)	8.95 kg (without power module and interface card)
Ambient temperature	0°C-40°C	0°C-40°C	0°C-40°C	0°C-40°C
Relative humidity	5-90% (non-condensing)	5-90% (non-condensing)	5-90% (non-condensing)	5-90% (non-condensing)
Software				
Basic features	DHCP server/client, PPPoE server/client, PPPoA client, PPPoEoA client, NAT, Subinterface management			
Voice	RTP, SIP, SIP AG, IP PBX/TDM PBX, FXO/FXS, VoIP/conference call, BEST, DISA, SBC, H.323 gatekeeper			

Item	AR2201-48FE/ AR2202-48FE	AR2204	AR2220	AR2240
3G	CDMA 2000EV-DO Rev A, WCDMA, individual 3G uplink/backup link			
LTE	FDD LTE: Uplink: 50Mbit/s Downlink: 100Mbit/s			
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), WLAN security(WEP/WPA/WPA2/Key management)			
LAN	IEEE 802.1P, IEEE 802.1Q, IEEE 802.3, VLAN management, MAC address management, MSTP			
IPv4 unicast routing	Routing policy, static route, RIP, OSPF, IS-IS, BGP			
IPv6 unicast routing	Routing policy, static route, RIPng, OSPFv3, IS-ISv6, BGP4+			
Multicast	IGMP v1/v2/v3, IGMP-Snooping v1/v2/v3, PIM SM, PIM DM, MSDP			
MPLS	LDP, MPLS L3 VPN, static LSP, dynamic LSP, MPLS TE, IP FRR, LDP FRR, TE FRR			
VPN	IPSec VPN, GRE VPN, DSVPN, SSL VPN, L2TP VPN			
QoS	DiffServ mode, MPLS QoS, priority mapping, traffic policing with Committed Access Rate (CAR), traffic shaping, congestion avoidance (based on IP precedence/DSCP-based WRED), congestion management (LAN interface: SP, WRR, SP+WRR; WAN interface: PQ/CBWFQ), MQC (traffic classifier, traffic behavior, and traffic policy), Hierarchical QoS, FR QoS, Smart Application Control (SAC), Hard QoS(SRU80 Main Boards support)			
Security	ACL, firewall, 802.1x authentication, MAC address authentication, Web Authentication, AAA authentication, RADIUS authentication, HWTACACS authentication, broadcast storm suppression, ARP security, ICMP attack defense, URPF, IP Source Guard, DHCP snooping, CPCAR, blacklist, IP source tracing			
Management and maintenance	Upgrade management, device management, web-based GUI, GTL, SNMP (v1/v2c/v3), NTP, CWMP, Auto-Config, deployment using USB disk, NetConf, CLI			

Note**: The maximum number of slots contains the number of all combined slots. Both AR2201-48FE and AR2202-48FE can support an expansion slot.

How to Configure the Modular AR2200 Router

The AR 2200 router series features a modular chassis with slots that can be configured to meet customer requirements. First, choose either the AR2220 or the AR2240 model.

Chassis Options

The AR2220 model has two chassis options, one with an AC power supply and one with a DC power supply. All other chassis components are the same.

The AR2240 model has six chassis options:

- Main control board SRU 40 with AC power supply
- Main control board SRU 40 with DC power supply
- Main control board SRU 60 with AC power supply
- Main control board SRU 60 with DC power supply
- Main control board SRU 80 with AC power supply
- Main control board SRU 80 with DC power supply
- Main control board SRU 200 with AC power supply
- Main control board SRU 200 with DC power supply

See **Table 6** for a description of the three main control board options.

NOTE: A separate fan module is required for all AR2240 chassis.

Service cards

After selecting a chassis option, customers can provision the router chassis with one of the four available DSP cards and with interface cards that provide the required features.

The optional interface cards include SIC cards, WSIC cards, and XSIC cards. Two SIC slots can be used as one WSIC slot by removing the guide rail, and two WSIC slots can be used as one XSIC slot by removing the panel. The DSP card fits into the DSP slot and works with the FXO/FXS/ISDN/VE1 voice card.

Software

Basic software that supports routing, switching, voice service, and security is included with all models, along with product documentation. Licensed software is available to support optional features, such as AC.

Ordering Information

Begin by ordering the chassis, control board (AR2240), power supply, and fan module (AR2240). Then select a DSP card (if required), interface modules, any special licenses, and any desired accessories (SD card or USB disk).

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

Table 5: Chassis Options and Fan Module

Chassis Configuration	Description
AR2201-48FE	AR2201-48FE Basic Configuration: AR2201-48FE,2GE WAN(1GE Combo),1 USB,48FE LAN,60W AC Power
AR2202-48FE	AR2202-48FE Basic Configuration: AR2202-48FE,2GE WAN(1GE Combo),1 E1,1 SA,1 USB,48FE LAN,60W AC Power
AR2204	AR2204 Basic Configuration: AR2204,3GE WAN(1GE Combo),2 USB,4 SIC,2 DSP DIMM,150W AC Power
AR0M0022BA00	AR2220 Basic Configuration: AR2220,3GE WAN(1GE Combo),2 USB,4 SIC,2 WSIC,1 DSP Slot,150W AC Power
AR0M0022BD00	AR2220 Basic Configuration: AR2220,3GE WAN(1GE Combo),2 USB,4 SIC,2 WSIC,1 DSP Slot,150W DC Power
AR0M2220CD01	AR2220 Basic Configuration: AR2220,3GE WAN(1GE Combo),2 USB,4 SIC,2 WSIC, build-in 128-channel DSP,150W AC Power
AR0M0024BA00	AR2240 Basic Configuration: AR2240,Service and Router Unit 40,4 SIC,2 WSIC,2 XSIC,350W AC Power
AR0M2240CC00	AR2240 Basic Configuration: AR2240,SRU60,4 SIC,2 WSIC,2 XSIC,350W AC Power
AR0M0024EA00	AR2240 Basic Configuration: AR2240,Service and Router Unit 80,4 SIC,2 WSIC,2 XSIC,350W AC Power
AR0M0024DC00	AR2240 Basic Configuration: AR2240,Service and Router Unit 40,4 SIC,2 WSIC,2 XSIC,350W DC Power
AR0M2240CE00	AR2240 Basic Configuration: AR2240,SRU60,4 SIC,2 WSIC,2 XSIC,350W DC Power
AR0M0024ED00	AR2240 Basic Configuration: AR2240,Service and Router Unit 80,4 SIC,2 WSIC,2 XSIC,350W DC Power
AR2240	AR2240 Integrated Chassis Components
AR0MDF05A000	Fan Box For AR2240

Table 6: Main Control Board Options (AR2240 only)

Main Control Board	Description
AR0MSRU40A00	Service and Router Unit 40,3GE WAN(2GE Combo),2 USB,3 DSP Slots
AR0MSRU60A00	Service and Router Unit 60
AR0MSRU80A00	Service and Router Unit 80,3GE WAN(2GE Combo),2 USB,3 DSP Slots
AR-SRU200	Service and Router Unit 200

Table 7: Power Module Options

Power Module	Description
AR0MPSDP1500	150 W DC Power Module
AR0MPSDP3500	350 W DC Power Module
AR0MPSAP1500	150 W AC Power Module
AR0MPSAP3500	350 W AC Power Module
AR0MPSAR15A	150W RPS Power Module

Table 8: Digital Signal Processor Module Options

DSP Module	Description
AR0MDD016A00	16-channel voice DSP module
AR0MDD032A00	32-channel voice DSP module
AR0MDD064A00	64-channel voice DSP module
AR0MDD128A00	128-channel voice DSP module

Table 9: SIC Interface Module Options

SIC Interface 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
AR0MSVA4B1A0	4-Port FXS and 1-Port FXO Voice Interface Card
AR01SVB4XA	4-Port FXO Voice 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 WAN Interface Module
AR01SLV1XA	1-Port VDSL2 over POTS WAN Interface Module

SIC Interface Module	Description
AR0MSLS1XA00	1-Port 4 Pair G.SHDSL WAN Interface Module
AR0MSDS1XA00	1-Port ISDN S/T WAN Interface Card
AR0MSVS2XA00	2-Port ISDN S/T Voice Interface Module
AR01SDGW1A	3G HSPA+7 Interface Module
AR0MSOPP2A00	1-Port GPON/EPON Dual-mode Interface Card
AR-1EVDO-S	3G EVDO Interface Card
AR-1LTE-H-S	WCDMA LTE Data Card
AR-4ES2G-S	4-Port 1000BASE-RJ45 L2 Ethernet Interface Card(SIC)
AR-1VE1-S	1-Port VE1 Interface card
AR-1ADSLBJ-D	1-port ADSL2+ annex B/J WAN Interface Daughter Card

Table 10: WSIC 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
AR01WDCE4A	4-Port Channelized E1/PRI Multiflex Trunk 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
AR01WEG4SB	4-Port 1000BASE-SFP-L2 Ethernet Interface Card
AR01WEG4TA	4-Port 1000BASE-RJ45-L3 Ethernet WAN Interface Card
AR0MWDAS8A01	8-Port Async Serial Port Interface Card
AR-1CSTM1-W	1-Port 155M Channelized Packet over SDH/Sonet Optical Interface Card
AR01WPS31A	1-Port 155M Packet over SDH/Sonet Optical Interface Card
AR-1STM4-W	1-Port 622M Packet over SDH/Sonet Optical Interface Card
AR0MWMF9TT00	8-Port 10/100BASE(RJ45) and 1-Port 10/100/1000BASE(RJ45)-L2/L3 Ethernet Switch Interface Card
AR01WVADXA	16-Port FXS Voice Interface Card
AR01WVAHXA	32-Port FXS Voice Interface Card
AR-9ES2-W	8 Port 100BASE-RJ45 and 1 Port 1000BASE- RJ45 L2 Ethernet Interface Card
03022CPM	8-Port Sync/Async Serial Port Interface Card
AR-4GECS-W	4 Port-GE COMBO WAN Interface Card

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
LAR0DATAE03	AR2200 Value-Added Data Package
LAR0AC03	AR2200 AC Express License
LAR0VOICEE03	AR2200 Value-Added Voice Package
LAR0CMBEST01	AR CM&BEST License-5 telephones
LAR0CMBEST02	AR CM&BEST License-25 telephones
LAR0CMBEST03	AR CM&BEST License-100 telephones
LAR0CT01	AR CT(Call Trunk) License-5 sessions
LAR0CT02	AR CT(Call Trunk) License-25 sessions
LAR0CT03	AR CT(Call Trunk) License-100 sessions
LAR0CT04	AR CT(Call Trunk) License-500 sessions
LAR0CT05	AR CT(Call Trunk) License-1000 sessions
LAR0IVR01	AR IVR(Interactive Voice Response) License-1 session
LAR0IVR02	AR IVR(Interactive Voice Response) License-12 sessions
LAR0SECE03	AR2200 Value-Added Security Package
LAR0DSVPN03	AR2200 DSVPN(Dynamic Smart VPN) Function
AR0SSSLVPN01	AR SSLVPN License-Access 10 users
AR0SSSLVPN02	AR SSLVPN License-Access 25 users
AR0SSSLVPN03	AR SSLVPN License-Access 100 users

Table 13: SD Card and USB Disk Options

SD Cards & USB Disks	Description
N0MSD2G00	Storage Medium,Micro SD Card,2GB,2.7~3.6V,English SPEC,Support the Interface of the SD 1.1 Standard,11mm*15mm*1mm (L*W*T),No Adapter and Bar Code,Independence Box,for Datacom Enterprise Network AR production only
N0MSD4G01	Micro SD card,4GB, CLASS6,2.7~3.6V,English SPEC, Compatible with SD Specification Ver.2.0,11mm*15mm*1mm (L*W*T),No Adapter and Bar Code, Independence Box, Datacom Enterprise Network AR production only
NUSBDSK01	Storage USB DISK,4GB,USB 2.0,No document

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

Professional Service and Support

Huawei Professional Services provides expert network design and service optimization tasks, helping customers design and deploy a high-performance network that is reliable and secure, maximizing return on investment as well as reducing operational expenses.

Company Addendum

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