

Huawei AR G3 Series Enterprise Routers Brochures



AR G3 Series Enterprise Routers



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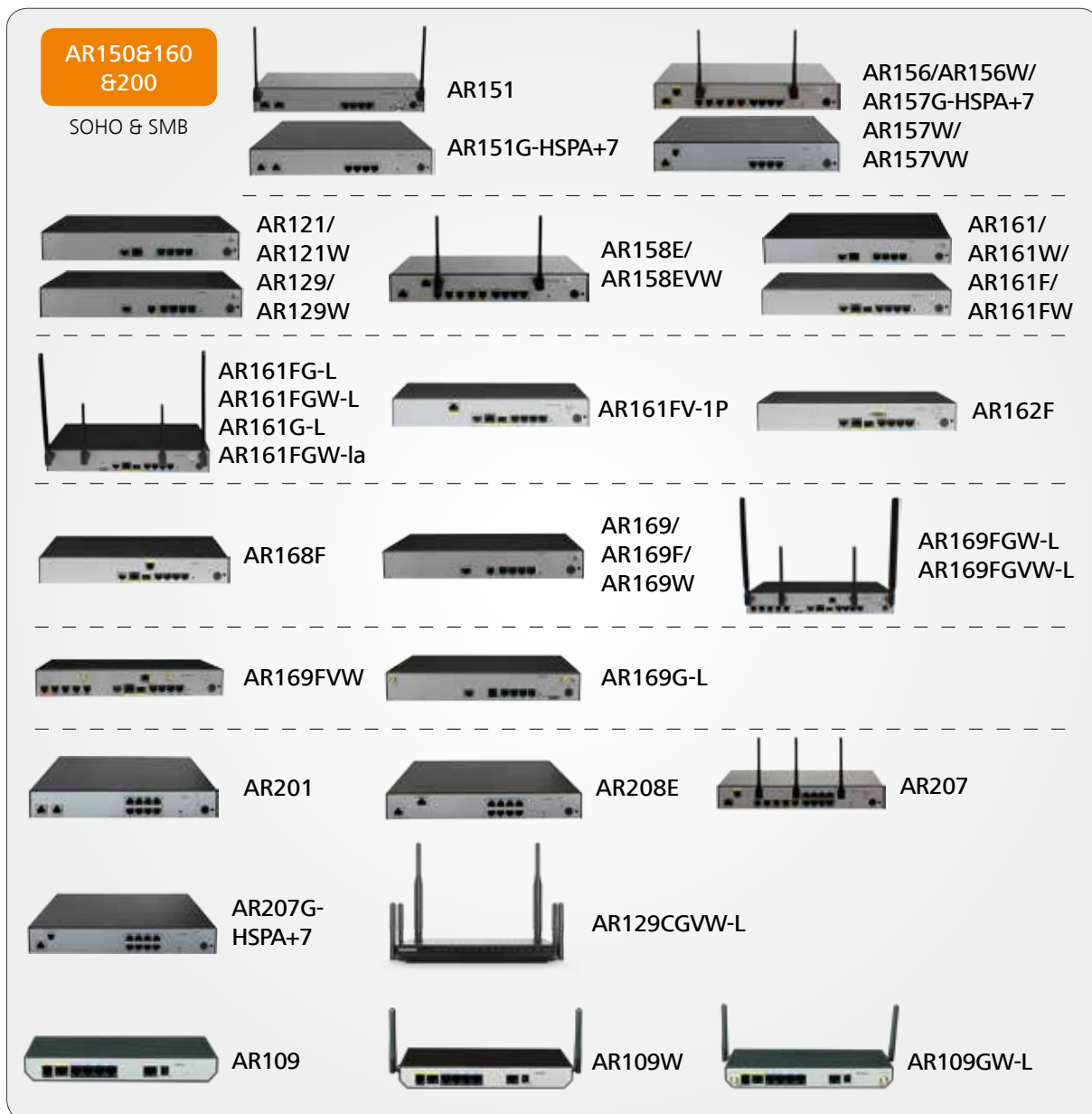
Huawei AR G3 series enterprise routers (AR G3) are next-generation routers dedicated for enterprise customers. The AR G3 all-in-one router series integrates multiple services including; routing, switching, 3G, WLAN, voice, and security functions in one device.

Building on over a decade of accumulated knowledge and experience in telecommunications, data communications, wired and wireless networking, Huawei's next-generation AR G3 routers are designed with the unique requirements of the Enterprise in mind. Based on Huawei's proprietary Versatile Routing Platform (VRP), the AR G3 series integrates

routing, switching, 3G, WLAN, voice, and security functions in one device, delivered via a multi-core CPU architecture coupled with a non-blocking switching infrastructure.

These features combine to deliver industry leading performance and extensibility, meeting customer requirements for a robust, reliable and flexible solution for enterprise-grade network deployments. Due to strict adherence to industry standards, the AR G3 router series are easily integrated into existing networks, accelerating multi-service network deployment while preserving existing network infrastructure investments.

AR3200 Series HQ/Large Branch	AR3260 		
AR2200 Series Medium Branch	AR2201-48FE 	AR2204-27GE/ AR2204-27GE-P 	AR2204-51GE-P 
	AR2204E 	AR2220/AR2220E 	AR2240/AR2240C 
AR1200 Series Small Branch	AR1220 	AR1220F 	AR1220V 
	AR1220C 	AR1220W/ AR1220VW 	AR1220EVW AR1220E/AR1220EV 



The AR G3 supports various interface cards, including Ethernet interface cards, E1/T1/PRI/VE1/VT1 interface cards, synchronous/asynchronous interface cards, ADSL2+/G.SHDSL/VDSL2 interface cards, FXS/FXO voice cards, ISDN interface cards, EPON/GPON interface cards, 3G interface cards and LTE interface cards.

Depending on the slot type, these cards are classified into Smart Interface Cards (SICs), Double-Width SICs (WSICs), and Double-Height SICs (XSICs).

About the interface card options, please refer to [Huawei AR G3 Enterprise Routers Ordering Guide](#).

Key Advantages

A

Application in one, Reduce TCO



- Flexible access supporting dual-mode wireless and wired mode
- Converged Services with Data/Voice/security/WAN Acceleration, integrated in one box

B

Better Experience, Business Continuity



- Industry-Leading performance, cloud ready architecture, with non blocking throughput and hardware-Level QoS and IpSec Encryption service
- Service reliability and Network stability with hot-swappable boards and fault recovery<50ms

C

Cooperation platform, On Demand applications



- Customized services using OSP (Open Service Platform) with Linux/Windows/VM
- Easy network management using standard MIBs , on Huawei VRP platform, callable by 3rd party SNMP application

Typical Applications

Voice Gateway



Broadband/Leased Line



3G/LTE Wireless Backup



One-stop GE Access



Value-Added Service Platform



AR G3 Series Enterprise Routers



Technical Specifications

Table 1: Technical Specifications of AR3200 Series Routers

Item	AR3260
WAN speed with services (IMIX)	1Gbps (with SRU40) 2Gbps (with SRU80) 1Gbps (with SRU100E) 4.5Gbps (with SRU200) 5.5Gbps (with SRU400)
Firewall performance (1500 byte)	5.5 Gbps (with SRU40) 9.5 Gbps (with SRU80) 10Gbps (with SRU100E) 15Gbps (with SRU200) 20Gbps (with SRU400)
Switching capacity	160 Gbps
IPSec VPN Tunnels	6000
Number of recommended users	2000
Fixed Ethernet ports	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+
SIC slots	4
WSIC slots (default/max**)	2/4
XSIC slots (default/max**)	4/6
DSP	0/3 x DSP Slots
USB 2.0 ports	1/2
Memory	2GB/4GB
Flash(default/max**)	2GB/8GB
Storage	–
Max. power	350 W (Single Power Module)
AC power	100 V-240 V; Frequency: 50 Hz/60 Hz
DC power	-48 V~-60 V
Dimensions (H x W x D)	130.5 mm x 442 mm x 470 mm
Ambient temp.	0°C to 45°C
Relative humidity	5 to 95% (non-condensing)
WAN interfaces	Ethernet, CE1/CT1, E1/T1, E3,ADSL2+, G.SHDSL, Sync/Async Serial, ISDN, CPOS, POS
LAN	IEEE 802.1P, IEEE 802.1Q, IEEE 802.3, VLAN management, MAC address management, MSTP
Basic feature	DHCP server/client, PPPoE server/client, PPPoA server/client, PPPoEoA server/client, NAT, Subinterface management
Voice	RTP, SIP, SIP AG, IP PBX/TDM PBX, FXO/FXS, VoIP/Conference call, BESA, DISA, SBC

Item	AR3260
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)
3G	3G Interface card(WCDMA)
LTE	LTE Interface card(FDD LTE: Uplink: 50Mbit/s Downlink: 100Mbit/s)
IPv4 unicast routing	Routing policy, static route, RIP, OSPF, IS-IS, BGP,SPR
IPv6 unicast routing	Routing policy, static route, RIPng, OSPFv3, IS-ISv6, BGP4+
Multicast	IGMP V1/V2/V3, IGMP-Snooping V1/V2/V3 (not supported on AR1200 series), 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, L2TP VPN, Smart VPN
QoS	Diffserv mode, MPLS QoS, priority mapping, traffic policing (CAR), traffic shaping, congestion avoidance (based on IP precedence/DSCP 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(SRU series 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), RMON, NTP, CWMP, Auto-Config, deployment using USB disk, CLI

Table 2: Technical Specifications of AR2200 Series Routers

Item	AR2201-48FE	AR2204-27GE	AR2204-27GE-P	AR2204-51GE-P
WAN speed with services	200Mbps	200Mbps	200Mbps	200Mbps
Firewall performance (large packets)	900Mbps	1.2Gbps	1.2Gbps	1.2Gbps
Device switching capacity	-	250Gbps	250Gbps	250Gbps
IPSec VPN Tunnels	2000	2000	2000	2000
Number of recommended users	150	150	150	150
Fixed WAN ports	2 x GE (1 x Combo)	3 x GE (1 x Combo)	3 x GE (1 x Combo)	3 x GE (1 x Combo)
Fixed Ethernet switching ports	48 x FE(FE0、 FE47 can be configured as WAN interfaces)	24 x GE	24 x GE	48 x GE
SIC slots	0	4	4	4
WSIC slots (default/ max**)	0	0	0	0
XSIC slots (default/ max**)	0	0	0	0

Item	AR2201-48FE	AR2204-27GE	AR2204-27GE-P	AR2204-51GE-P
DSP	0	0	0	0
USB 2.0 ports	1	1	1	1
Memory	512MB	512MB	512MB	512MB
Flash(default/max**)	512MB	512MB	512MB	512MB
Maximum power	60W	60W	60W	60W
Redundant Power Supply	External RPS	-	Internal: AC	Internal: AC
AC power	100 V-240 V			
Frequency	50 Hz/60 Hz			
DC power	-	-	-	-
Dimensions (height x width x depth)	44.5 mm x 442 mm x 310 mm	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
Ambient temperature	0°C - 45°C	0°C - 45°C	0°C - 45°C	0°C - 45°C
Relative humidity	5-95% (non-condensing)	5-95% (non-condensing)	5-95% (non-condensing)	5-95% (non-condensing)
WAN interfaces	Ethernet, CE1/CT1, E1/T1, E3,ADSL2+, G.SHDSL, Sync/Async Serial, ISDN, CPOS, POS			
LAN	IEEE 802.1P, IEEE 802.1Q, IEEE 802.3, VLAN management, MAC address management, MSTP			
Basic feature	DHCP server/client, PPPoE server/client, PPPoA server/client, PPPoEoA server/client, NAT, Subinterface 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), WLAN security (WEP/WPA/WPA2/Key management)			
3G	3G Interface card(WCDMA)			
LTE	LTE Interface card(FDD LTE: Uplink: 50Mbit/s Downlink: 100Mbit/s)			
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, L2TP VPN, Smart 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, CLI			

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

The flash memory storage can be expanded by Micro SD card.

Table 3: Technical Specifications of AR2200 Series Routers

Item	AR2204E	AR2220	AR2220E	AR2240C	AR2240
WAN speed with services	200Mbps	400 Mbps	800 Mbps	1Gbps	1Gbps (with SRU40) 2Gbps (with SRU80) 2Gbps (with SRU100E) 4.5Gbps (with SRU200)
Firewall performance (large packets)	1.2Gbps	1.9 Gbps	3Gbps	6Gbps	5.5 Gbps (with SRU40) 9.5 Gbps (with SRU80) 10Gbps (with SRU100E) 15Gbps (with SRU200)
IPSec VPN Tunnels	2000	4000	4000	4000	6000
Number of recommended users	150	300	300	500	1000
Fixed WAN ports	3xGE (1 x Combo)	3xGE (1xCombo port)	3xGE (1xCombo port)	4 x GE + 4 x GE SFP + 2 x GE Combo	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+
SIC slots	4	4	4	4	4
WSIC slots (default/max**)	0/2	2/4	2/4	2/4	2/4
XSIC slots (default/max**)	0	0/2	0/2	2/4	2/4
DSP slots	0	1	2	0	0/3
USB 2.0 ports	1	2	2	1	2
Memory	512MB	2 GB	1 GB	2 GB	2GB/4GB
Flash(default/max**)	512MB	2GB/8GB	512MB/4GB	2GB/8GB	2GB/8GB
Maximum power	60W	150 W	150 W	350 W (Single Power Module) 700 W (Dual Power Module)	350 W (Single Power Module) 700 W (Dual Power Module)
Redundant Power Supply	Internal: AC	-	External RPS	Internal: AC,DC	Internal: AC,DC
AC power	100 V-240 V				
Frequency	50 Hz/60 Hz				
DC power	-48 V~-60 V	-48 V~-60 V	—	-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	44.5 mm x 442 mm x 420 mm	88.1 mm x 442 mm x 470 mm
Ambient temperature	0°C - 45°C	0°C - 45°C	0°C - 45°C	0°C - 45°C	0°C - 45°C
Relative humidity	5-95% (non-condensing)	5-95% (non-condensing)	5-95% (non-condensing)	5-95% (non-condensing)	5-95% (non-condensing)
WAN interfaces	Ethernet, CE1/CT1, E1/T1, E3,ADSL2+, G.SHDSL, Sync/Async Serial, ISDN, CPOS, POS				

Item	AR2204E	AR2220	AR2220E	AR2240C	AR2240
LAN	IEEE 802.1P, IEEE 802.1Q, IEEE 802.3, VLAN management, MAC address management, MSTP				
Basic feature	DHCP server/client, PPPoE server/client, PPPoA server/client, PPPoEoA server/client, NAT, Subinterface 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), WLAN security (WEP/WPA/WPA2/Key management)				
3G	3G Interface card(WCDMA)				
LTE	LTE Interface card(FDD LTE: Uplink: 50Mbit/s Downlink: 100Mbit/s)				
IPv4 unicast routing	Routing policy, static route, RIP, OSPF, IS-IS, BGP,SPR				
IPv6 unicast routing	Routing policy, static route, RIPng, OSPFv3, IS-ISv6, BGP4+				
Multicast	IGMP V1/V2/V3, IGMP-Snooping V1/V2/V3 (not supported on AR1200 series), 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, L2TP VPN, Smart VPN				
QoS	Diffserv mode, MPLS QoS, priority mapping, traffic policing (CAR), traffic shaping, congestion avoidance (based on IP precedence/DSCP 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(SRU series 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), RMON, NTP, CWMP, Auto-Config, deployment using USB disk, CLI				

Note**: The maximum number of slots contains the number of all combined slots.

The flash memory storage can be expanded by Micro SD card.

Table 4: Technical Specifications of AR1200 Series Routers

Item	AR1220	AR1220-D	AR1220C	AR1220E	AR1220EV	AR1220EVW
WAN speed with services(IMIX) *	200 Mbps	200 Mbps	200 Mbps	400 Mbps	400 Mbps	400 Mbps
Firewall performance (1500 byte)	900 Mbps	900 Mbps	1000 Mbps	1800 Mbps	1800 Mbps	1800 Mbps
Switching capacity	8 Gbps	8 Gbps	8 Gbps	8 Gbps	8 Gbps	8 Gbps
IPSec VPN Tunnels	2000	2000	2000	2000	2000	2000
Number of recommended users	100	100	100	100	100	100
Fixed WAN ports	2 x GE	2 x GE	4 x GE + 1 x GE SFP	2 x GE Combo	2 x GE Combo	2 x GE Combo
Fixed Ethernet switching ports	8 x FE(can be configured as WAN interfaces)	8 x FE(can be configured as WAN interfaces)	8 x GE(can be configured as WAN interfaces)	8 x GE(can be configured as WAN interfaces)	8 x GE(can be configured as WAN interfaces)	8 x GE(can be configured as WAN interfaces)
SIC slots	2	2	2	2	2	2

Item	AR1220	AR1220-D	AR1220C	AR1220E	AR1220EV	AR1220EVW
WSIC slots (default/max**)	0/1	0/1	0/1	0/1	0/1	0/1
XSIC slots (default/max**)	0/0	0/0	0/0	0/0	0/0	0/0
DSP	0	0	0	0	32 channels DSP	32 channels DSP
USB 2.0 ports	2	2	2	2	2	2
Memory	512 MB	512 MB	512 MB	1GB	1GB	1GB
Flash	256 MB	256 MB	512 MB	512MB	512MB	512MB
Max. power	60W	54W	25W	60W	60W	60W
AC power	100 V to 240 V; Frequency: 50 Hz/60 Hz	—	100 V-240 V; Frequency: 50 Hz/60 Hz	100 V-240 V; Frequency: 50 Hz/60 Hz	100 V-240 V; Frequency: 50 Hz/60 Hz	100 V-240 V; Frequency: 50 Hz/60 Hz
DC power	—	-48 V or -60V	—	—	—	—
Dimensions (H x W x D)	44.5 mm x 390 mm x 220 mm	44.5 mm x 390 mm x 220 mm	44.5 mm x 390 mm x 220 mm	44.5 mm x 390 mm x 220 mm	44.5 mm x 390 mm x 220 mm	44.5 mm x 390 mm x 220 mm
Ambient temp	0°C to 45°C					
Relative humidity	5 to 95% (non-condensing)					
WAN interfaces	Ethernet, CE1/CT1, E1/T1, ADSL2+, G.SHDSL, Sync/Async Serial, ISDN					
LAN	IEEE 802.1P, IEEE 802.1Q, IEEE 802.3, VLAN management, MAC address management, MSTP					
Basic feature	DHCP server/client, PPPoE server/client, PPPoA server/client, PPPoEoA server/client, NAT, Subinterface management					
Voice	RTP, SIP, SIP AG, IP PBX/TDM PBX, FXO/FXS, VoIP/Conference call, BESA, DISA, SBC(Only Voice models support voice features)					
WLAN(AP)	AP management, WLAN QoS (WMM), WLAN security (WEP/WPA/WPA2/key management), WLAN radio management (802.11b/g/n), WLAN user management(Only WLAN models support WLAN AP features)					
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)					
3G	3G Interface card(WCDMA)					
LTE	LTE Interface card(FDD LTE: Uplink: 50Mbit/s Downlink: 100Mbit/s)					
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 (not supported on AR1200 series), 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, L2TP VPN, Smart VPN					
QoS	Diffserv mode, MPLS QoS, priority mapping, traffic policing (CAR), traffic shaping, congestion avoidance (based on IP precedence/DSCP WRED), congestion management (LAN interface: SP/WRR/SP+WRR; WAN interface: PQ/CBWFQ), MQC (traffic classifier, traffic behavior, and traffic policy), H-QoS, WLAN QoS, FR QoS, Smart Application Control (SAC)					
Security	ACL, firewall, 802.1x authentication, AAA authentication, RADIUS authentication, HWTACACS authentication, broadcast storm suppression, ARP security, ICMP attack defense, URPF, CPCAR, blacklist, IP source tracing,					
Management and maintenance	Upgrade management, device management, web-based GUI, GTL, SNMP(v1/v2c/v3), RMON, NTP, CWMP, Auto-Config, deployment using USB disk, NetConf, CLI					

Note**: The maximum number of slots contains the number of all combined slots.

Table 5: Technical Specifications of AR1200 Series Routers

Item	AR1220F	AR1220V	1220VW	AR1220W
WAN speed with services(IMIX) *	400 Mbps	200 Mbps	200 Mbps	200 Mbps
Firewall performance (1500 byte)	1800Mbps	900 Mbps	900 Mbps	900 Mbps
Switching capacity	8 Gbps	8 Gbps	8 Gbps	8 Gbps
IPSec VPN Tunnels	2000	2000	2000	2000
Fixed WAN ports	2 x GE(1 x Combo)	2 x GE	2 x GE	2 x GE
Fixed Ethernet switching ports	8 x FE(can be configured as WAN interfaces)	8 x FE (4 x FE support PoE) (can be configured as WAN interfaces)	8 x FE (4 x FE support PoE) (can be configured as WAN interfaces)	8 FE (4 x FE support PoE) (can be configured as WAN interfaces)
SIC slots	2	2	2	2
WSIC slots (default/max**)	0/1	0/1	0/1	0/1
XSIC slots (default/max**)	0/0	0/0	0/0	0/0
DSP	—	32 channels DSP	32 channels DSP	—
USB 2.0 ports	2	2	2	2
Memory	512 MB	512 MB	512 MB	512 MB
Flash	512 MB	256 MB	256 MB	256 MB
Micro SD (default/max)	—	—	—	—
Max. power	60W	60W	60W	60W
AC power	100 V-240 V; Frequency: 50 Hz/60 Hz	100 V-240 V; Frequency: 50 Hz/60 Hz	100 V-240 V; Frequency: 50 Hz/60 Hz	100 V-240 V; Frequency: 50 Hz/60 Hz
DC power	100 V-240 V; Frequency: 50 Hz/60 Hz	—	—	—
Dimensions (H x W x D)	44.5 mm x 390 mm x 220 mm	44.5 mm x 390 mm x 220 mm	44.5 mm x 390 mm x 220 mm	44.5 mm x 390 mm x 220 mm
Ambient temp	0°C to 45°C			
Relative humidity	5 to 95% (non-condensing)			
WAN interfaces	Ethernet, CE1/CT1, E1/T1, ADSL2+, G.SHDSL, Sync/Async Serial, ISDN			
LAN	IEEE 802.1P, IEEE 802.1Q, IEEE 802.3, VLAN management, MAC address management, MSTP			
Basic feature	DHCP server/client, PPPoE server/client, PPPoA server/client, PPPoEoA server/client, NAT, Subinterface management			
Voice	RTP, SIP, SIP AG, IP PBX/TDM PBX, FXO/FXS, VoIP/Conference call, BESA, DISA, SBC(Only Voice models support voice features)			
WLAN(AP)	AP management, WLAN QoS (WMM), WLAN security (WEP/WPA/WPA2/key management), WLAN radio management (802.11b/g/n), WLAN user management(Only WLAN models support WLAN AP features)			
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)			
3G	3G Interface card(WCDMA)			

Item	AR1220F	AR1220V	1220VW	AR1220W
LTE	LTE Interface card(FDD LTE: Uplink: 50Mbit/s Downlink: 100Mbit/s)			
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 (not supported on AR1200 series), 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, L2TP VPN, Smart VPN			
QoS	Diffserv mode, MPLS QoS, priority mapping, traffic policing (CAR), traffic shaping, congestion avoidance (based on IP precedence/DSCP WRED), congestion management (LAN interface: SP/WRR/SP+WRR; WAN interface: PQ/CBWFQ), MQC (traffic classifier, traffic behavior, and traffic policy), H-QoS, WLAN QoS, FR QoS, Smart Application Control (SAC)			
Security	ACL, firewall, 802.1x authentication, AAA authentication, RADIUS authentication, HWTACACS authentication, broadcast storm suppression, ARP security, ICMP attack defense, URPF, CPCAR, blacklist, IP source tracing,			
Management and maintenance	Upgrade management, device management, web-based GUI, GTL, SNMP(v1/v2c/v3), RMON, NTP, CWMP, Auto-Config, deployment using USB disk, NetConf, CLI			

Note**: The maximum number of slots contains the number of all combined slots.

Table 6: Technical Specifications of AR150 and AR200 Series Routers

Item	AR201/AR151	AR156/AR156W	AR207/AR157	AR207G-HSPA+7/ AR157G-HSPA+7	AR208E/AR158E
WAN speed with services(IMIX) *	150 Mbps/ 100 Mbps	100 Mbps/ 100Mbps	150 Mbps/ 100 Mbps	150 Mbps/ 100 Mbps	150 Mbps/ 100 Mbps
IPSec VPN Tunnels	75	75	75	75	75
Number of recommended users	50	50	50	50	50
Fixed WAN ports	1 x FE	1 x ADSL2+ Annex J	1 x ADSL2+ Annex A/M	1 x ADSL2+ Annex A/M	1 x G.SHDSL 4-pair
Fixed Ethernet switching ports	8 x FE/4 x FE(can be configured as WAN interfaces)	4 x FE/4 x FE(can be configured as WAN interfaces)	8 x FE/4 x FE(can be configured as WAN interfaces)	8 x FE/4 x FE(can be configured as WAN interfaces)	8 x FE/4 x FE(can be configured as WAN interfaces)
Fixed voice ports	—	—	—	—	—
Integrated 3G	—	—	—	WCDMA HSPA+7	—
USB 2.0 ports	1				
Console ports	1				
Memory size	512 MB				
Flash memory	512 MB				
Maximum power	36W / 24W	24W / 24W	36W / 24W	36W / 24W	36W / 24W
Power supply (AC)	100 V to 240 V				
Frequency	50/60 Hz				

Item	AR201/AR151	AR156/AR156W	AR207/AR157	AR207G-HSPA+7/ AR157G-HSPA+7	AR208E/AR158E
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.)				
Operating temperature	0°C to 45°C				
Relative humidity	5% to 95% (noncondensing)				
Basic feature	DHCP server/client, PPPoE server/client, PPPoA server/client, PPPoEoA server/client, NAT, Sub interface management				
Voice	RTP, SIP, SIP AG, IP PBX/TDM PBX, FXO/FXS, VoIP/Conference call, BESA, DISA, SBC, (Voice models only support voice features)				
WLAN(AP)	AP management, WLAN QoS (WMM), WLAN security (WEP/WPA/WPA2/key management), WLAN radio management (802.11b/g/n), WLAN user management(Only WLAN models support WLAN AP features)				
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 version1/2/3, PIM SM, PIM DM, MSDP				
VPN	IPSec VPN, GRE VPN, DSVPN, L2TP VPN, Smart VPN				
QoS	Diffserv mode, Priority mapping, traffic policing (CAR), traffic shaping, congestion avoidance (based on IP precedence/DSCP WRED), congestion management (LAN interface: SP/WRR/SP+WRR; WAN interface: PQ/CBWFQ), MQC (traffic classification, traffic behavior, and traffic policy), H-QoS, WLAN QoS, FR QoS, , Smart Application Control (SAC)				
Security	ACL, firewall, 802.1x authentication, AAA authentication, RADIUS authentication, HWTACACS authentication, broadcast storm suppression, ARP security, ICMP attack defense, URPF, CPCAR, blacklist, IP source tracing, PKI				
Management and maintenance	Upgrade management, device management, web-based GUI, GTL, SNMP(v1/v2c/v3), RMON, NTP, CWMP, Auto-Config, site deployment using USB disk, CLI				

Table 7: Technical Specifications of AR150 and AR200 Series Routers

Item	AR151G-HSPA+7	AR157VW	AR157W	AR158EVW
WAN speed with services(IMIX) *	100 Mbps	100 Mbps	100 Mbps	100 Mbps
IPSec VPN Tunnels	75	75	75	75
Number of recommended users	50	50	50	50
Fixed WAN ports	1 x FE	1 x ADSL2+ Annex A/M	1 x ADSL2+ Annex A/M	1 x G.SHDSL 4-pair

Item	AR151G-HSPA+7	AR157VW	AR157W	AR158EVW
Fixed Ethernet switching ports	4 x FE(can be configured as WAN interfaces)	4 x FE(can be configured as WAN interfaces)	4 x FE(can be configured as WAN interfaces)	4 x FE(can be configured as WAN interfaces)
Fixed voice ports	—	4 x FXS, 1 x FXO	—	4 x FXS, 1 x FXO
Integrated 3G	WCDMA HSPA+7	—	—	—
USB 2.0 ports	1			
Console ports	1			
Memory size	512 MB			
Flash memory	512 MB			
Maximum power	24W	60W	24W	60 W
Power supply (AC)	100 V to 240 V			
Frequency	50/60 Hz			
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.)			
Operating temperature	0°C to 45°C			
Relative humidity	5% to 95% (noncondensing)			
Basic feature	DHCP server/client, PPPoE server/client, PPPoA server/client, PPPoEoA server/client, NAT, Sub interface management			
Voice	RTP, SIP, SIP AG, IP PBX/TDM PBX, FXO/FXS, VoIP/Conference call, BESA, DISA, SBC (only Voice models support voice features)			
WLAN(AP)	AP management, WLAN QoS (WMM), WLAN security (WEP/WPA/WPA2/key management), WLAN radio management (802.11a/b/g/n), WLAN user management(Only WLAN models support WLAN AP features)			
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 version1/2/3, PIM SM, PIM DM, MSDP			
VPN	IPSec VPN, GRE VPN, DSVPN, L2TP VPN, Smart VPN			
QoS	Diffserv mode, Priority mapping, traffic policing (CAR), traffic shaping, congestion avoidance (based on IP precedence/DSCP WRED), congestion management (LAN interface: SP/WRR/SP+WRR; WAN interface: PQ/CBWFQ), MQC (traffic classification, traffic behavior, and traffic policy), H-QoS, WLAN QoS, FR QoS, , Smart Application Control (SAC)			
Security	ACL, firewall, 802.1x authentication, AAA authentication, RADIUS authentication, HWTACACS authentication, broadcast storm suppression, ARP security, ICMP attack defense, URPF, CPCAR, blacklist, IP source tracing, PKI			
Management and maintenance	Upgrade management, device management, web-based GUI, GTL, SNMP(v1/v2c/v3), RMON, NTP, CWMP, Auto-Config, site deployment using USB disk, CLI			

Table 8: Technical Specifications of AR160 Series Routers

Item	AR161	AR161F	AR161FW	AR161FG-L	AR161FGW-L	AR161G-L	AR161W	AR161FV-1P	AR162F
WAN speed with services(IMIX) *	150 Mbps	150 Mbps	150 Mbps	150 Mbps	150 Mbps	150 Mbps	150 Mbps	150 Mbps	150 Mbps
IPSec VPN Tunnels	75	75	75	75	75	75	75	75	75
Number of recommended users	50	50	50	50	50	50	50	50	50
Fixed WAN ports	1 x GE	1 x GE Combo	1 x GE Combo	1 x GE Combo	1 x GE Combo	1 x GE	1 x GE	1 x GE Combo	1 x SA, 1 x GE Combo
Fixed Ethernet switching ports	4 x GE(can be configured as WAN interfaces)	4 x GE(can be configured as WAN interfaces)	4 x GE(can be configured as WAN interfaces)	4 x GE(can be configured as WAN interfaces)	4 x GE(can be configured as WAN interfaces)	4 x GE(can be configured as WAN interfaces)	4 x GE(can be configured as WAN interfaces)	4 x GE(can be configured as WAN interfaces)	4 x GE(can be configured as WAN interfaces)
Fixed voice ports	—	—	—	—	—	—	—	1VE1	—
WLAN	—	—	802.11 b/g/n	—	802.11 b/g/n	—	802.11 b/g/n	—	—
Integrated 3G/LTE	—	—	—	FDD LTE	FDD LTE	FDD LTE	—	—	—
USB 2.0 ports	1	1	1	1	1	1	1	1	1
Console ports	1	1	1	1	1	1	1	1	1
Memory size	512 MB	512 MB	1 GB	512 MB	512 MB	512 MB	512 MB	512 MB	512 MB
Flash memory	512 MB	512 MB	512 MB	512 MB	512 MB	512 MB	512 MB	512 MB	512 MB
Maximum power	24W	24W	24W	24W	24W	24W	24W	24W	36W
Power supply (AC)	100 V to 240 V								
Frequency	50/60 Hz								
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.)								
Operating temperature	0°C to 45°C								
Relative humidity	5% to 95% (noncondensing)								
Basic feature	DHCP server/client, PPPoE server/client, PPPoA server/client, PPPoEoA server/client, NAT, Sub interface management								
Voice	RTP, SIP, SIP AG, IP PBX/TDM PBX, FXO/FXS, VoIP/Conference call, BESA, DISA, SBC(Only Voice models support voice features)								
WLAN(AP)	AP management, WLAN QoS (WMM), WLAN security (WEP/WPA/WPA2/key management), WLAN radio management (802.11a/b/g/n), WLAN user management(Only WLAN models support WLAN AP features)								
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								

Item	AR161	AR161F	AR161FW	AR161FG-L	AR161FGW-L	AR161G-L	AR161W	AR161FV-1P	AR162F
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 version1/2/3, PIM SM, PIM DM, MSDP								
VPN	IPSec VPN, GRE VPN, DSVPN, L2TP VPN, Smart VPN								
QoS	Diffserv mode, Priority mapping, traffic policing (CAR), traffic shaping, congestion avoidance (based on IP precedence/DSCP WRED), congestion management (LAN interface: SP/WRR/SP+WRR;WAN interface: PQ/CBWFQ), MQC (traffic classification, traffic behavior, and traffic policy), H-QoS, WLAN QoS, FR QoS, , Smart Application Control (SAC)								
Security	ACL, firewall, 802.1x authentication, AAA authentication, RADIUS authentication, HWTACACS authentication, broadcast storm suppression, ARP security, ICMP attack defense, URPF, CPCAR, blacklist, IP source tracing, PKI,								
Management and maintenance	Upgrade management, device management, web-based GUI, GTL, SNMP(v1/v2c/v3), RMON, NTP, CWMP, Auto-Config, site deployment using USB disk, CLI								

Table 9: Technical Specifications of AR160 Series Routers

Item	AR168F	AR169	AR169F	AR169FVW	AR169FGW-L	AR169FGVW-L	AR169G-L	AR169W
WAN speed with services(IMIX) *	150 Mbps	150 Mbps	150 Mbps	150 Mbps	150 Mbps	150 Mbps	150 Mbps	150 Mbps
IPSec VPN Tunnels	75	75	75	75	75	75	75	75
Number of recommended users	50	50	50	50	50	50	50	50
Fixed WAN ports	1 x G.SHDSL 8-wire, 1 x GE Combo	1 x VDSL2	1 x VDSL2, 1 x GE Combo	1 x VDSL2, 1 x GE Combo	1 x VDSL2, 1 x GE Combo	1 x VDSL2, 1 x GE Combo	1 x VDSL2	1 x VDSL2
Fixed Ethernet switching ports	4 x GE(can be configured as WAN interfaces)	4 x GE(can be configured as WAN interfaces)	4 x GE(can be configured as WAN interfaces)	4 x GE(can be configured as WAN interfaces)	4 x GE(can be configured as WAN interfaces)	4 x GE(can be configured as WAN interfaces)	4 x GE(can be configured as WAN interfaces)	4 x GE(can be configured as WAN interfaces)
Fixed voice ports	—	—	—	4 x FXS, 1 x FXO	—	4 x FXS, 1 x FXO	—	—
WLAN	—	—	—	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	—	802.11 b/g/n
Integrated 3G/LTE	—	—	—	—	FDD LTE	FDD LTE	FDD LTE	—
USB 2.0 ports	1	1	1	1	1	1	1	1
Console ports	1	1	1	1	1	1	1	1
Memory size	512 MB	512 MB	512 MB	1 GB	1 GB	1 GB	512 MB	512 MB
Flash memory	512 MB	512 MB	512 MB	512 MB	512 MB	512 MB	512 MB	512 MB
Maximum power	24W	24W	24W	24W	24W	24W	24W	24W
Power supply (AC)	100 V to 240 V							

Item	AR168F	AR169	AR169F	AR169FVW	AR169FGW-L	AR169FGVW-L	AR169G-L	AR169W
Frequency	50/60 Hz							
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.)							
Operating temperature	0°C to 45°C							
Relative humidity	5% to 95% (noncondensing)							
Basic feature	DHCP server/client, PPPoE server/client, PPPoA server/client, PPPoEoA server/client, NAT, Sub interface management							
Voice	RTP, SIP, SIP AG, IP PBX/TDM PBX, FXO/FXS, VoIP/Conference call, BESA, DISA, SBC(Only Voice models support voice features)							
WLAN(AP)	AP management, WLAN QoS (WMM), WLAN security (WEP/WPA/WPA2/key management), WLAN radio management (802.11a/b/g/n), WLAN user management(Only WLAN models support WLAN AP features)							
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 version1/2/3, PIM SM, PIM DM, MSDP							
VPN	IPSec VPN, GRE VPN, DSVPN, L2TP VPN, Smart VPN							
QoS	Diffserv mode, Priority mapping, traffic policing (CAR), traffic shaping, congestion avoidance (based on IP precedence/DSCP WRED), congestion management (LAN interface: SP/WRR/SP+WRR;WAN interface: PQ/CBWFQ), MQC (traffic classification, traffic behavior, and traffic policy), H-QoS, WLAN QoS, FR QoS, , Smart Application Control (SAC)							
Security	ACL, firewall, 802.1x authentication, AAA authentication, RADIUS authentication, HWTACACS authentication, broadcast storm suppression,ARP security, ICMP attack defense, URPF, CPCAR, blacklist, IP source tracing, PKI,							
Management and maintenance	Upgrade management, device management, web-based GUI, GTL, SNMP(v1/v2c/v3), RMON, NTP, CWMP,Auto-Config, site deployment using USB disk, CLI							

Table 10: Technical Specifications of AR120 Series Routers

Item	AR129CGVW -L	AR121	AR121W	AR129	AR129W
Hardware					
WAN speed with services (IMIX)	50Mbps	50 Mbps	50 Mbps	50 Mbps	50 Mbps
IPSec VPN Tunnels	75	75	75	75	75
Number of recommended users	20	20	20	20	20
Fixed WAN ports	1 x VDSL2 (compatible with ADSL2+ Annex A/M, Annex B/J), 1 x GE	1 x FE	1 x FE	1 x VDSL2	1 x VDSL2

Item	AR129CGVW -L	AR121	AR121W	AR129	AR129W
Fixed Ethernet switching ports	4 x GE(can be configured as WAN interfaces)	4 x FE(can be configured as WAN interfaces)	4 x FE(can be configured as WAN interfaces)	4 x FE(can be configured as WAN interfaces)	4 x FE(can be configured as WAN interfaces)
Fixed voice ports	2 x FXS	—	—	—	—
Integrated LTE	FDD LTE	—	—	—	—
WLAN	802.11b/g/n, 2.4GHz, 2 x 2 MIMO 802.11ac, 5GHz, 2 x 2MIMO	—	802.11 b/g/n	—	802.11 b/g/n
USB 2.0 ports	1	1	1	1	1
Console ports	1	1	1	1	1
Memory size	256 MB	256 MB	256 MB	256 MB	256 MB
Flash memory	256 MB	256 MB	256 MB	256 MB	256 MB
PoE power	—	—	—	—	—
Maximum power	24 W	24 W	24 W	24 W	24 W
Power supply (AC)	100 V to 240 V	100 V to 240 V	100 V to 240 V	100 V to 240 V	100 V to 240 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Dimensions (H x W x D)	30 mm x 230 mm x 130 mm (1.18 in. x 9.1 in. x 5.1 in.)	44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)	44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)	44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)	44.5 mm x 300 mm x 220 mm (1.75 in. x 11.8 in. x 8.66 in.)
Operating temperature	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C
Relative 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)

Software

Basic features	ARP , PBR, DNS, DHCP, NAT
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, etc.
IPv4routing	static route, RIP, BGP
IPv6 routing	static route, RIPng, BGP4+
Multicast	IGMP version1/2/3,MLD,
VPN	IPSec VPN, GRE VPN, L2TP VPN,
QoS	MQC, priority mapping, traffic policing (CAR), traffic shaping, congestion avoidance (based on IP precedence/DSCP WRED), congestion management (LAN interface: SP/WRR/SP+WRR; WAN interface: PQ/CBWFQ), MQC (traffic classification, traffic behavior, and traffic policy),
Security	ACL, firewall, 802.1x authentication, AAA authentication, RADIUS authentication, broadcast storm suppression, ARP security, ICMP attack defense, URPF, blacklist, IP source tracing, PKI, HTTPS,
Management and maintenance	Upgrade management, device management, web-based GUI, SNMP(v1/v2c/v3)(AR129CGVW-L only), RMON, NTP, CWMP, Auto-Config, site deployment using USB disk, CLI

Table 11: Technical Specifications of AR100 Series Routers

Item	AR109	AR109W	AR109GW-L
Hardware			
WAN speed with services* (IMIX)	40 Mbps	40 Mbps	40 Mbps
Number of recommended users	20	20	20
Fixed WAN ports	1 x VDSL2(compatible with ADSL2+ Annex A/M, Annex B/J), 1 x GE	1 x VDSL2(compatible with ADSL2+ Annex A/M, Annex B/J), 1 x GE	1 x VDSL2(compatible with ADSL2+ Annex A/M, Annex B/J), 1 x GE
Fixed Ethernet switching ports	4 x GE	4 x GE	4 x GE
Integrated LTE	—	—	LTE FDD
Wi-Fi	—	802.11 b/g/n	802.11 b/g/n
USB 2.0 ports	1	1	1
console ports	1	1	1
Memory size	256 MB	256 MB	256 MB
Flash memory	256 MB	256 MB	256 MB
Maximum power	24 W	24 W	24W
Power supply (AC)	100 V to 240 V	100 V to 240 V	100 V to 240 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Dimensions (H x W x D)	30 mm x 230 mm x 130 mm (1.18 in. x 9.1 in. x 5.1 in.)	30 mm x 230 mm x 130 mm (1.18 in. x 9.1 in. x 5.1 in.)	30 mm x 230 mm x 130 mm (1.18 in. x 9.1 in. x 5.1 in.)
Operating temperature	0°C to 45°C	0°C to 45°C	0°C to 45°C
Relative humidity	5% to 95% (non-condensing)	5% to 95% (non-condensing)	5% to 95% (non-condensing)

Item	AR109	AR109W	AR109GW-L
Software			
Basic features	ARP , PBR, DNS, DHCP, NAT		
WLAN(AP)	—	AP management, WLAN QoS, WLAN security, WLAN radio management, WLAN user management	
LAN	IEEE 802.1P, IEEE 802.1Q, IEEE 802.3, VLAN management, MAC address management, MSTP, etc.		
IPv4routing	static route, RIP		
IPv6 routing	static route, RIPng		
Multicast	IGMP version1/2/3		
VPN	IPSec VPN, GRE VPN, L2TP Client		
QoS	priority mapping, traffic policing (CAR), traffic shaping, congestion avoidance (based on IP precedence/DSCP WRED), congestion management (LAN interface: SP/WRR/SP+WRR; WAN interface: PQ/CBWFQ)		
Security	ACL, firewall, AAA authentication, ICMP attack defense, URPF, HTTPS		
Management and maintenance	Upgrade management, device management, web-based GUI, RMON, CWMP, Auto-Config, site deployment using USB disk, CLI		

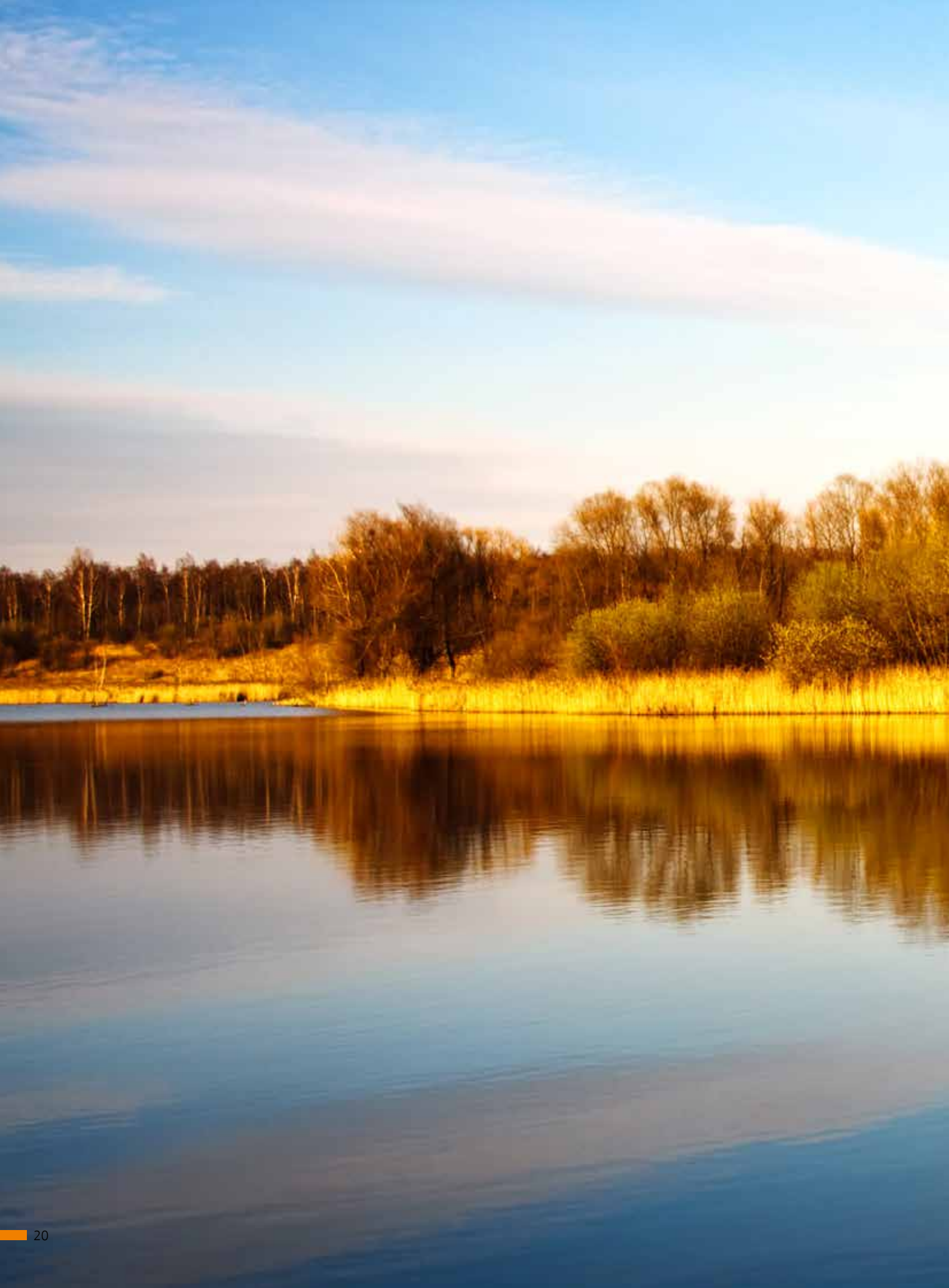
Notes: Service performance depending on specific feature configuration.

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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