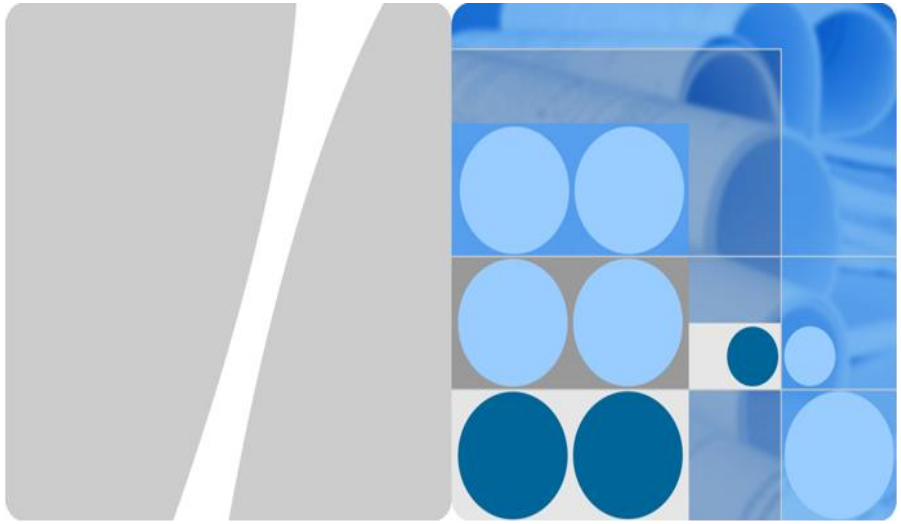

AR G3 Feature List

Version **V2.5.1**
Date **2014/2/14**

Trademark Notice

, HUAWEI, and are trademarks or registered trademarks of Huawei Technologies Co., Ltd.

Other trademarks, product, service and company names mentioned are the property of their respective owners.

NO WARRANTY

THE CONTENTS OF THIS DOCUMENT ARE FOR INFORMATION PURPOSE ONLY, AND PROVIDED "AS IS". EXCEPT AS REQUIRED BY APPLICABLE LAWS, NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE MADE IN RELATION TO CONTENTS OF THIS DOCUMENT.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO CASE SHALL HUAWEI TECHNOLOGIES CO., LTD BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, OR LOST PROFITS, BUSINESS, REVENUE, DATA, GOODWILL OR ANTICIPATED SAVINGS ARISING OUT OF OR IN CONNECTION WITH ANY USE OF THIS DOCUMENT.

HUAWEI TECHNOLOGIES CO.,LTD.
Huawei Industrial Base
Bantian Longgang
Shenzhen 518129,P.R.China
Tel: +86 755 28780808

www.huawei.com

AR G3 Routers Portfolio

AR3200 Series
Headquarter (500-1000 users)

AR2200 Series
Medium Branch (10-500 users)

AR1200 Series
Small Branch (50-100 users)

AR150&AR160&AR200 Series
SOHO (30-50 users)

VRP inside

AR3260

AR2201-48FE
AR2202-48FE
AR2201-48FE-S

AR2204
AR2204-S

AR2220
AR2220-S

AR2240
AR2240-S

AR1220
AR1220-DC
AR1220-S

AR1220V

AR1220L
AR1220L-S

AR1220W
AR1220VW
AR1220W-S

AR1220F

AR151
AR156
AR157
AR151-S

AR151G-HSPA+7
AR157G-HSPA+7
AR151G-U-S

AR 151W-P
AR151W-P-S

AR 157W

AR 157VW

AR 158EVW

AR 151G-C

AR201/AR207/AR206
AR201-S/AR207-S

AR207V/AR207V-P

AR207G-HSPA+7

AR208E

AR 201VW-P
AR207VW

AR158E

AR168F

AR169F

AR161FG-L

AR161FGW-L

Sub-series	Item	Specification	Gold																								
			AR161	AR161W-P	AR161W-HKPA-T	AR169	AR169V	AR167	AR167W	AR167VW	AR167GY-HKPA-V	AR169E	AR169EW	AR161G-C	AR651PW	AR651PWH	AR169P	AR169P	AR651	AR651VW-P	AR656	AR657	AR657V	AR657V-P	AR657VW	AR657G-HKPA-V	AR658E
System																											
	Main control system																										
		Processor	533 MHz 2 Core	533 MHz 2 Core	530 MHz 2 Core	533 MHz 2 Core	533 MHz 2 Core	533 MHz 2 Core	533 MHz 2 Core	533 MHz 2 Core	530 MHz 2 Core	533 MHz 2 Core	533 MHz 2 Core	533 MHz 2 Core	533 MHz 2 Core	533 MHz 2 Core	533 MHz 2 Core	533 MHz 2 Core	533 MHz 2 Core	533 MHz 2 Core	533 MHz 2 Core	533 MHz 2 Core	533 MHz 2 Core	533 MHz 2 Core	533 MHz 2 Core	533 MHz 2 Core	533 MHz 2 Core
		Switching capacity of the system	X	-	-	X	-	X	-	-	-	X	-	-	X	X	X	X	-	-	X	X	X	X	-	X	X
		Switching capacity of each slot	X	-	-	X	-	X	-	-	-	X	-	-	X	X	X	X	-	-	X	X	X	X	-	X	X
		Real-time clock (RTC)	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	X	X	X	X
		Memory (default/maximum)	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M
		Flash memory	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M	512M
		Micro SD card memory (default/maximum)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		RC slot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		SHSC slot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		XSIC slot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		EVRC slot (shian with XSIC slot)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		DSP	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	The 8-channel voice is supported by default.	The 8-channel voice is supported by default.	0	The 8-channel voice is supported by default.	0
		DSP slot	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Panel interface																										
		Panel FE LAN port (LAN port)	4	4	4	4	4	4	4	4	4	4	4	4	4-Port Fixed GE LAN port (LAN port)	4-Port Fixed GE LAN port (LAN port)	4-Port Fixed GE LAN port (LAN port)	4-Port Fixed GE LAN port (LAN port)	8	8	8	8	8	8	8	8	8
		Panel GE SVAN port (SFP port)	SFB	1PB (10/100M/Gbase auto-sensing RJ45 electrical interface)	1PB (10/100M/Gbase auto-sensing RJ45 electrical interface)	1 ppol ADSL ANNEX.B	1 ppol ADSL ANNEX.B	1 ppol ADSL ANNEX.A/M	1 ppol ADSL ANNEX.A/M	1 ppol ADSL ANNEX.A/M	1 ppol ADSL ANNEX.A/M	8 Mini G.fast/bis	8 Mini G.fast/bis	1 ppol, 8 ppe G.fast/bis	1PB (10/100M/Gbase auto-sensing RJ45 electrical interface)	1 GE Combo	1 GE Combo	1 GE Combo and 1 pank 4 SFP+	1 GE Combo and 1 pank 4 SFP+	1PB	1PB (10/100M/Gbase auto-sensing RJ45 electrical interface)	1 ppol ADSL ANNEX.B	1 ppol ADSL ANNEX.A/M	1 ppol ADSL ANNEX.B	1 ppol ADSL ANNEX.A/M	1 ppol ADSL ANNEX.A/M	8 Mini G.fast/bis
		Wi-Fi port	N	802.11 BGN	N	N	802.11 BGN	N	802.11 BGN	802.11 BGN	0	N	802.11 BGN	N	1	1	802.11 BGN	N	N	N	802.11 A/BGN	N	N	N	N	802.11 A/BGN	N	N
		USB port (2.0)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		SD card port	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		USB console port	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		AUX/Console port	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		3G port	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supporting HKPA+, WCDMA, GPPS, and EDGE. Supporting voice service.	Supporting GSM/A GPRS, and EDGE. Supporting voice service.	Supporting FDD LTE. Supporting voice service.	Supporting FDD LTE. Supporting voice service.	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supporting HKPA+, WCDMA, GPPS, and EDGE. Supporting voice service.	Supported by USB
		Kongfilter lock	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		ESD wrist jack	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Power supply																										
		Rated input voltage (AC)	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100 ~ 240V 50/60Hz	AC: 100 ~ 240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz
		Maximum input voltage (AC)	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 90~132V 47/63Hz	AC: 90~132V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz
		Rated input voltage (DC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Maximum input voltage (DC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Maximum power consump...	36 W	36 W	36 W	36 W	36 W	36 W	36 W	36 W	36 W	36 W	36 W	36 W	36 W	36 W	36 W	36 W	36 W	36 W	36 W	36 W	36 W	36 W	36 W	36 W	36 W
		PoE (W)	N	External power 320 W. Only 4ge fixed ports (F60-F63) are supported.	X	N	X	N	X	X	X	N	X	X	X	X	N	N	N	N	N	External power 320 W. Only 4ge fixed ports (F60-F63) are supported.	N	N	N	External power 320 W. All the eight fixed LAN ports are supported.	X	External power 320 W. All the eight fixed LAN ports are supported.	N
		Power supply redundancy	N	X	X	N	X	N	X	X	X	N	X	X	X	X	N	N	N	N	N	X	N	N	N	N	X	N	N
	Physical																										
		Dimensions (H x W x D)	300x216.6x44																								
		Weight	1.7kg																								
		Environment (relative/ambient	0-45°C																								
		Humidity	5% to 95%, non-condensing																								
	Reliability																										
		Module hot swap	N	X	X	N	X	N	X	X	X	N	X	X	X	X	X	N	N	N	N	X	N	N	N	N	X	N	N
		Power module hot ...	N	X	X	N	X	N	X	X	X	N	X	X	X	X	X	N	N	N	N	X	N	N	N	N	X	N	N
		Fan module hot swap	N	X	X	N	N	N	X	X	X	N	X	X	X	X	X	N	N	N	N	X	N	N	N	N	X	N	N
		Main control board hot ...	N	X	X	N	N	N	X	X	X	N	X	X	X	X	X	N	N	N	N	X	N	N	N	N	X	N	N
		MTBF (year)	29.03567	30.39	30.35	29.03567	58.23	29.03567	30.35	30.35	30.35	29.03567	58.23	58.12	58.23	51.67	67.48	67.22	29.03567	77.27	29.03567	29.03567	29.03567	29.03567	29.03567	60.43	29.03567	29.03567
		ASTRI (Hour)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Performance																										
		Basic forwarding performance (64-byte packets)	300Kpps	300Kpps	300Kpps	300Kpps	350Kpps	300Kpps	300Kpps	300Kpps	300Kpps	300Kpps	300Kpps	300Kpps	300Kpps	350Kpps	350Kpps	350Kpps	350Kpps	450Kpps	450Kpps	450Kpps	450Kpps	450Kpps	450Kpps	450Kpps	450Kpps	450Kpps
		NAT + ACL + QoS forwarding bandwidth (bps, IMIX unidirectional forwarding)	100M	100M	100M	100M	100M	100M	100M	100M	100M	100M	100M	100M	100M	150M	150M	150M	150M	150M	150M	150M	150M	150M	150M	150M	150M	150M
		IPSec forwarding bandwidth (bps, IMIX unidirectional	80M	80M	80M	80M	80M	80M	80M	80M	80M	80M	80M	80M	80M	200M	200M	200M	200M	200M	200M	200M	200M	200M	200M	200M	200M	200M
		FW forwarding bandwidth (bps, IMIX unidirectional	140M	140M	140M	140M	140M	140M	140M	140M	140M	140M	140M	140M	140M	700M	700M	700M	700M	700M	180M	180M	180M	180M	180M	180M	180M	180M
		ASIC entry	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	2K	2K	2K	2K	2K	2K	2K	2K	2K
		ARP entry	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	2000	2000	2000	2000	2000	2000	2000	2000	2000
		Number of VLANs	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128
		Number of IPv4 routes on a device	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K
		Number of PBB forwarding tables on a device	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K	20K
		Number of IPv6 routes on a device	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K
		Number of PBB forwarding tables on a device	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K
		Maximum number of PPPoE users' that access a local Ethernet network	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	128	128	128	128	128	128	128	128	128	128
		Maximum number of portal address pools	16	16	16	16	16	16	16	16	16	16	16	16	64	16	16	16	16	64	64	64	64	64	64	64	64	64
		Maximum number of portal users that can be created on an ...	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64
		Number of concurrent responses (UDP and TCP responses) by an HQoS server	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
		Maximum number of ARPs	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	2000	2000	2000	2000	2000	2000	2000	2000	2000
		Maximum number of VPN routes on a device	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
		Maximum number of VPN routes on a device (VPN routes from network tables)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Number of IPSec	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
		Number of L2TP	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
		Number of L2TP	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
		Number GRE tunnels	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128
		Maximum number of XSL VPN access	50	10	10	10	10	10	10	10	10	10	10	10	10	50	10	10	10	10	10	10	10	10	10	10	10	10
		Maximum of concurrent SSL connections on a	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256
		Maximum number of configured IKEs	2K	2K	2K	2K	2K	2K	2K	2K	2K	2K	2K	2K	2K	2K	2K	2K	2K	2K	2K	2K	2K	2K	2K	2K	2K	2K
		Maximum number of configured IPsE IKEv2	513	512	512	512	512	512	512	512	512	512	512	512	512	512	512	512	512	512	512	512	512	512	512	512	512	512
		Maximum number of configured IPsE IKEv2	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
		Number of IP addresses in each	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
		Maximum number of concurrent NAT connections	32K	32K	32K	32K	32K	32K	32K	32K	32K	32K	32K	32K	32K	32K	32K	32K	32K	32K	32K	32K	32K	32K	32K	32K	32K	32K
		Maximum number of concurrent connections in the	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K
		Maximum number of concurrent LANs (PPoE	-	-	-	-	-	-	-	2K	-	-	-	2K	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Maximum number of DSRP channels (PEX and DX)	-	-	-	-	-	-	-	64k/channels	-	-	-	64k/channels	-	-	-	-	-	-	64k/channels	-	-	-	64k/channels	64k/channels	64k/channels	-
		Maximum number of DSRP channels (PEX and AX 3000 T)	-	-	-	-	-	-	2K	-	-	-	2K	-	-	-	-	-	-	-	50	-	-	50	50	50	-	-
		Rate set of the voice baseline and whitelist	-	-	-	-	-	-	16	-	-	-	16	-	-	-	-	-	-	-	16	-	-	16	16	16	-	-
		Maximum number of rules that can be configured for each directive and whitelist	-	-	-	-	-	-	64	-	-	-	64	-	-	-	-	-	-	-	64	-	-	64	64	64	-	-
		Number of MPLS L2V VCI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Maximum number of bound tunnels	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128
		Maximum number of MPLS L2VPNs	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128
		Recommended number of APs that the AC can manage	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
		Maximum number of concurrent users allowed by the AC	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
Feature																											
Ethernet port attributes																											
	Ethernet port	Interrupted packets(RFC 894), DIXEF packets(802.3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Link aggregation	802.3ad	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	LACP	Supports static LACP M:N backup among member interfaces in an aggregation group	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
LAN access																											
VLAN management																											
	Basic VLAN	IEEE 802.1P, 802.1Q	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Interface bas. port	Access, trunk, and	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	VLAN aggregation	Super VLAN and MAP relay in a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	QinQ VLAN		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	VMAN VLAN		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	GVRP		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	VLAN/IP interface		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MAC address management																											
	Static MAC address and dynamic MAC		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MAC address limit		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Sticky MAC address		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MAC address flapping detection		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Invalid MAC address	AR201/AR1200 with Sx6 BPE interface does not support packets discarding	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
STP																											
	MSTP	IEEE 802.1d (STP), 802.1w (RSTP), 802.1s (MSTP)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MSTP security		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
LLDP			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ARP			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Port management																											
	Port isolation																										
		Support port isolation modes: (1) Layer 2 and Layer 3 service isolated. (2) Layer 2 service isolated, Layer 3 service not isolated.	(Layer 3 isolation is not supported.)																								
		Port isolation group	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Unidirectional isolation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WAN interface																											
	LAN interface	Supporting Ethernet, PPP, and VLAN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Synchronous serial		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Configuring the serial port supports synchronous/asynchro nous mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		The synchronous serial port supports PPP, HDLC, FR, and PPPP. The PPP protocol is used by default.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		The asynchronous serial port support PPP encapsulation.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		The MTU can be set in bytes and 1500. The default value is 1500 bytes. The value ranges from 128 to	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	CE1/PRI		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Working in E1, CE1, or PRI mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Channel binding	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Timeslot binding on the PRI interface	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	CTI interface	ANSI T1.403 Timeslot binding on the CTI interface	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	ADSL interface		X	X	X	✓	✓	✓	✓	✓	✓	X	X	X	X	X	X	X	X	X	✓	✓	✓	✓	✓	✓	✓	✓
		The ADSL line complies with ADSL2 (G992.3), ADSL2+ (G992.5), G.DMT (G992.1), and T1.413 Issue 2.	X	X	X	✓	✓	✓	✓	✓	✓	X	X	X	X	X	X	X	X	X	✓	✓	✓	✓	✓	✓	✓	✓
		Annex A, B, J, M, and L	X	X	X	✓	✓	✓	✓	✓	✓	X	X	X	X	X	X	X	X	X	✓	✓	✓	✓	✓	✓	✓	✓
		Supporting ATM packet mode	X	X	X	✓	✓	✓	✓	✓	✓	X	X	X	X	X	X	X	X	X	✓	✓	✓	✓	✓	✓	✓	✓
	G.SHDSL interface		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Setting the ATM/PTM mode and number of the used G.hsdsl.	X	X	X	X	X	X	X	X	X	X	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Sub-menu	Item	Specification	Model																									
			AR161	AR161W-P	AR161G-HSPA+7	AR169	AR169V	AR167	AR167W	AR167VW	AR6370S-HSPA+7	AR6388	AR6388VW	AR161G-C	AR6370S	AR6370SHSL	AR388P	AR688P	AR651	AR651VW-P	AR656	AR357	AR357V	AR357V-P	AR357VW	AR6370S-HSPA+7	AR3588
		Setting the WWAN standard supporting CDR1.2 and CDR1.2 (Rel)	X	X	X	X	X	X	X	X	X	✓	✓	X	X	X	✓	X	X	X	X	X	X	X	X	X	X	✓
	BSP interface		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Working in Sonet	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Working in unframed mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Configuring HDM3 as fan-encoding and decoding mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	E1-IMA	Configuring with PUT-1L-703 and HDM3 coding standards	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	TDP interface		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Working in bandi	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Setting transmission fan attenuation	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Transmiss binding on t TLA interface	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Configuring MADS in fan-encoding and decoding mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Setting the low-stuck mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Configuring a TLP interface to insert and loca	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	ISDN PRI interface		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Setting the maximum number and deFalt	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Supporting remote alarm	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Supporting local	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	CPOS interface	Setting features of CPOS, E1, and T1 interfaces	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	POS	PoP1-T, ISP, ECMET CC-SVS3M 5750-1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Asynchronous serial		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Setting the link layer protocol	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Configuring the clocks working mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Configuring the protocol working mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Modem		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Setting the call-in and call-out permissions	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Auto-baud rate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	xPON		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		GPON	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		EPON	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Compatible with ANNEX/M	✓	X	X	X	X	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		3G interface (WCDMA)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
JBI card																												
	NAC(3G		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	NAC(4G		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Interface backup																												
	Interface backup	Configuring a main interface as a backup interface. Setting load balancing mode of backup interfaces.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Association bet en interface backup	Configuring association between interface backup and	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bridge management																												
	Transparent bridge																											
		Configuring a static MAC address for a bridge group	SIT or Dialer member interface cannot be configured.)																									
		Aftechale MAC address entries	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Type of packets that can be forwarded by bridge interfaces	Ethernet II packets can be forwarded by bridge interfaces. Ethernet 802.3 packets do not support SNAP-tagged packets or Ethernet II SNAP packets, or supporting 8bit IP packets and non-IP packets.																									
		Link encapsulation protocol on the member interface	Non-Ethernet interfaces support HDLC, PPP, PR, and																									
		Member interface types Serial interfaces (HDLC and PPP) FR interfaces and sub-interfaces, ATM interfaces and sub-interfaces, Ethernet interfaces and sub-interfaces, VLANIP interfaces, Dialer interfaces, MP/B interfaces, and Virtual-Template MP interface, VT interfaces (L2F/VLAN and PPPoE)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Physical interfaces (GE, 10GE, CPOS, and E1/T1 interfaces	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Logical interface		Support Dialer interface, loopback interface, NULL interface, Tunnel interface, VE-interface, MP-Group interface, MFR interface, and Virtual-Template interface. Bridge-Template interface and Ethernet	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ATM																												
		Supporting PVP and PVCP sub-interfaces	X	X	X	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	X	X	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Carrying the IPoA/A	X	X	X	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	X	X	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Carrying the IPoA	X	X	X	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	X	X	✓	✓	✓	✓	✓	✓	✓	✓	✓
		PPP and PPPoE sub-PVC	X	X	X	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	X	X	✓	✓	✓	✓	✓	✓	✓	✓	✓
		QinQ	X	X	X	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	X	X	✓	✓	✓	✓	✓	✓	✓	✓	✓
		CC-capable ASB/SB, and ATM	X	X	X	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	X	X	✓	✓	✓	✓	✓	✓	✓	✓	✓
		PVC group	X	X	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X	✓	✓	✓	✓	✓	✓	✓	✓	✓
Frame relay		FRASB, FRVoIP/FRPPP,ASPF, and MPoFR	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
HDLC			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DCC		Route backup, circuit DCC, mirrored-block DCC, and DCC of a dialer interface, and DCC dialer list	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DPNSS			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ISDN	ISSI1	ITU-T Q.921, ITU-T Q.931	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PPP																												
	PPP	PPPoE, PPPoA, PPPoEoA, PPPoFR, and PPPoSSH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MP	MPoFR and MPoSHDI Control	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3G	3G		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IP applications																												
NAT																												
	Basic NAT																											
		FAT address pool	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		NAPT address pool mode (supporting FTP, HTP, and ESMT)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Easy IP mode (supporting TCP, UDP, and ICMP)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Server-side NAT (supporting TCP, UDP, ICMP, and other special protocol	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	NAT ALG	DNS, DNS mapping, FTP, ICM, RTSP, and	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Log	Log recording mode, log recording format, and flow-log	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Netflow9		Original stream, flexible stream, aggregated stream, and stream collector	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ARP																												
	Basic ARP																											
		Static ARP entries for main interfaces, sub-interfaces, for VLANIF interfaces. Static ARP entries for VPN instance interfaces. Static ARP entries in VPNinstance mode	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		ARP-related functions of a Layer 3 VPN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Layer 3 topology discover	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Address conflict detection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Classification statistics of ARP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	ARP proxy	ARP proxy anti-attack, inter-subnet proxy, intra-subnet proxy, and inter-VLAN proxy	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	ARP ping	ARP ping IP address and ARP ping MAC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IPv6 protocol stack																												
	IPv6 forwarding		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	IP address		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	TCP, UDP, and ICMP		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Sokrill		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Ping	IP ping and VRF ping	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Source address verification	Authenticating the source address of the packet based on the encoding packets	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Tracert	IP tracert and VRF	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Broadcast packet forwarding	Selecting whether to forward broadcast packets on a specified interface	(Only the host IP protocol stack forwarding is																									
	Forwarding load balance	Configuring multipath load balance	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Reseting the IP MTU	Configuring an outbound interface to fragment IP packets	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Policy-based routing	Local policy routes, loading balancing of policy routes	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IPv6 protocol stack																												
	IPv6 forwarding		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	TCP6, UDP6, ICMP6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Sokrill6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Ping6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Tracert6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	ND		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IPv6 transition technology																												
	Manual tunnel	Supporting Manual tunnels, GRE tunnels, IPv4-compatible address automatic tunnels, and 6to4 tunnels	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	6over tunnel	Supporting 6over6 tunnels, and setting the source interface for a tunnel, the hop limit value for a tunnel, the MTU for a tunnel, and the encapsulation limit	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DNS																												
	DNS Client	Configuring the DNS server statically and dynamically obtaining DNS server	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	DNS proxy/relay		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	DNS6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	DNS Client		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	DHCP Proxy/Relay		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VRRP																												
	IPv4 VRRP		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		VRRP backup and VRRP load balancing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Supporting simple authentication, MD5 authentication	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Supporting VRRP6 VPN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		VRRP in a BAP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		VRRP detect NQA collection object	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Reliability of single	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	VRRP6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	VRRP6 association		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	VRRP association		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	BFD and BFD association		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AAA																												
		EAP/PEAP/TCP/TSM PAP/RADIUS, HWTACACS/CHAP/HuaWei	Supporting command line/Web configuration	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		MIB																											
	NQA server		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DHCP																												
	DHCP relay		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Sub-system	Type	Specification	Model																								
			AR101	AR103GW-P	AR103GW-HBPA7	AR109	AR109W	AR107	AR107W	AR107VW	AR107G-HBPA7	AR108B	AR108BGW	AR108G-C	AR109VW	AR109VW-I	AR108P	AR108P	AR201	AR201VW-P	AR206	AR207	AR207V	AR207V-P	AR207VW	AR207G-HBPA7	AR208B
		Multi-side Layer 3 interfaces, Ethernet interface and sub-interface, Eth-Trunk main interfaces and sub-interfaces (QinQ termination modes are not supported), LAN-side Layer 3 interfaces, VE interfaces, and Loopback interfaces.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		DHCP servers in a	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	DHCP server		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Multi-side Layer 3 interfaces, Ethernet interfaces and sub-interfaces, Eth-Trunk main interfaces and sub-interfaces (QinQ termination modes are not supported), LAN-side Layer 3 interfaces, VE interfaces, and Loopback interfaces.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	DHCP security	Restricting the rate of DHCP packets by configuring CAR on a port, by VLAN, and restricting the rate of dynamic DHCP	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	DHCP Client	Multi-side Layer 3 interfaces, Ethernet interfaces, and sub-interfaces, Eth-Trunk main and sub-interfaces, and VE interfaces. (QinQ sub-interfaces are not	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
DHCPv6																											
	DHCPv6 client		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	DHCPv6 Relay		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	DHCPv6 Server		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
IP accounting		Supporting IP packet statistics, IP priority statistics, and IP packet statistics based on the filtering	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
UDP helper			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Unicast route																											
Unicast route management																											
	IPv4 and IPv6 routing table management	Route selection, load balancing, route capacity, load balancing, route backup, and route priority based route	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	FIB1 and FIB2	Supporting IPv4 FIB	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	IP FRR	Supporting manual IP FRR of the public network, manual IP FRR of the private network, and IP Auto FRR for the private network	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Route policy																											
	Routing policy filter	ACL, ip-prefix, community filter, extcommunity filter, as-path filter, and ip-rd-filter used as in each filter	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	route-policy	Route-policy configuration, if-match rule, actions of the route-policy, and universal match rule	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Static routes	Static IPv4 and IPv6 routes	Specified outbound interface, load balancing, and configuration of static routes on a private network	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
RIP		RIPv2, RIPng	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
OSPF		OSPFv2, OSPFv3	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Types of protocol packets, including Hello, Database Description, LSR, LSU, and LSAck packets	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Stub area and NSSA area	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
IS-IS		ISIS, ISISv6	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Types of network interfaces: supports broadcast networks, P2P networks, and NBMA networks. Loopback and Nnu interfaces support only when NBMA networks are simulated as P2P networks. VTAL interfaces. IS-IS is not supported on PPP/LAPPUA links.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Load balancing	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Configuration of the three-way handshake negotiation mode	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Packet authentication simple plaintext authentication mode MD5 authentication mode and keychain authentication mode	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		IPv4 multi-instance	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		GR-BGP association and IGP-LDP	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
BGP		BGP-4	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		BGP4+	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		GR-BGP	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
VPN		Asset Policy Route	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Multicast route																											
Multicast route			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
SNMP			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
SNMP		SNMPv2/v3/	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
SNMP Proxy			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
PIM			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	PIM-DM		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	PIM-SM		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	PIM-SSM		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
MSDP																											
MSDP interwork		MSDP snooping	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IGMP snooping		IGMP snooping	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MPLS																											
MPLS basic																											
	MPLS on the public network		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Assignment of controller labels and assignment of specified labels	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Supporting dynamic allocation of BGP LSP labels, BGP LSP labels, and L3 VPN labels. Dynamic assignment of RSVP LSP labels, static LSP labels, and LDP LSP labels, and static LSP labels	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Static LSP		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	MPLS QoS	Mapping in DiffServ mode on L3 VPNs (Supporting 8 L3VPN tun supporting L3VPN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LDP																											
	IPv4 LDP		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	LDP FRR	Supporting manual LDP FRR and LDP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L3 VPN																											
	MPLS/BGP VPN	Hub-Spoke VPN multiPe L3 VPN users can access the Internet Mutual access between local VPNs, tree-wire option A, B, Load balancing Filtering policy for VPN importing per VPN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	VPN FRR	Supporting manual VPN-FRR and VPN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2 VPN																											
	VLL	Supporting local CCC, PVC VLL, Martini VLL and cow domain Martini VLL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	PWE3	Supporting the single-active PW and PW fault detection	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MPLS TE																											
	MPLS TE tunnel		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	MPLS TE onsecto		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Security																											
Firewall																											
	Packet filtering firewall	Packet filtering based on basic ACLs, advanced ACLs, and inter-zone ACLs	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	ASPF																										
		ASPF detection protocols: FTP/HTTP/SMTP/RTSP/DNS protocol	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Java blocking	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		ActiveX blocking	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		IP fragment packet detection	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		ACL-based ASAI	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Attack defence																										
		Defence against ICMP flood attacks, ICMP unreachable packets, port scanning, Land attacks, Smurf attacks, Ping flood attacks, Tracert attacks, IP fragment attacks, WinNuke attacks, ping of death attacks, oversized ICMP packets, and malformed TCP packet attacks, and flood attacks.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Limit on global half-connections, TCP, UDP, fragment, and half-connections, insecure connections to a specified IP address, and connections from a specific IP address	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Static blacklist and user whitelist	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Attack log																										
		Alarm log	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Blocked log	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Traffic alarm and alarm clear log	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		DDoS defence logs	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Packet filtering logs	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	ActiveX-friendly mechanism																										
		Supporting HRB backup configuration and status	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Supporting HRB group configuration and status maintenance	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Recording logs when HRB disconnection occurs	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	ActiveStandby firewall																										
		Supporting firewall active/standby synchronization	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	VRRP																										
		VRRP	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		VRRP Backup	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Access security																											
	802.1x authentication	IEEE 802.1x 2000	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Interface-based 802.1x authentication	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		EAPoL terminationWay	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Guest VLAN and invoc VLAN	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		VLAN and ACL interwtion delivered by the RADIUS server	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		EAP-SIM authentication and EAP-AKA authentica	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	MAC address authentication																										
		User-based MAC address authentication	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Web authentication	Portal 2.0 and local Portal authentication	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	User access management																										
		Supporting user-group based authentication	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√

Sub-system	Item	Specification	Model																									
			AR161	AR1930V-P	AR1931D-HEPA-T	AR206	AR2050	AR207	AR257W	AR257VW	AR257G-HEPA-T	AR258E	AR258EW	AR161C-C	AR161FGL	AR161FGL-S	AR168F	AR169P	AR201	AR201VW-P	AR206	AR207	AR207V	AR207V-P	AR257VW	AR257G-HEPA-T	AR258E
		Supporting user group management, VLAN, and port priority	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Supporting ACL, VLAN, QoS authorization by the	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Supporting the MIB function of user groups	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Attack log		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Storm suppression		Interface-based broadcast traffic suppression, multicast traffic suppression, and unknown unicast traffic suppression	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
ARP security																												
	ARP packet suppression						√																					
		ARP packet suppression based on source IP address, source MAC address suppression, and ARP packet suppression based on interfaces	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		ARP Miss packet suppression based on source IP address and global ARP Miss packet suppression	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		ARP packet rate limit based on the super	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Limit on dynamic ARP entries	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Strict ARP learning	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	ARP spoofing						√																					
		Sending gratuitous ARP packets	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		ARP anti-spoofing mode: fixed-mac, host-all, and send-	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		ARP gateway anti-collision	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	DAI		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
IP security																												
	ICMP attack defense	Global ICMP packet suppression, interface-based ICMP packet suppression	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	uRPF		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	IPSG		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	DHCP snooping	Supporting global, interface-based, and VLAN-based DHCP snooping. Supporting dynamic update of DHCP snooping binding tables.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	DHCPv6 Snooping	Supporting DHCP snooping globally or in a VLAN, and supporting dynamic and static DHCP snooping binding tables	X	X	X	X	√	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CPU defend																												
	CPCAR		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Blacklist		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Attack source tracing		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
AAA																												
	Authentication	Supporting none authentication, local authentication, RADIUS authentication, HWTACACS authentication, PAP/CHAP authentication, EAP authentication, and EAP relay	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Authorization	Supporting none authorization, local authorization, HWTACACS authorization, and authorization after successful RADIUS authentication. One or more authorization modes can be used together	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Accounting	Supporting none accounting, RADIUS accounting, and HWTACACS	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Command line authorization	Supporting command line authorization for management users, command line authorization using the HWTACACS server, and local command line authorization in local mode	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
RADIUS			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
HWTACACS			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
802.1x			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
VPN																												
GRE																												
	GRE tunnel	Supporting MTU, GRE Checksum, tunnel status detection, GRE keepalive, tunnel and route recursion, interface name used as the source address of the tunnel interface	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Versions on the GRE tunnel																											
		Unicast routing protocols: RIP, OSPF, IS-IS, and BGP	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Multicast routing protocol: PIM-DM/SM	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Redirecting packets to the GRE tunnel	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
IPsec VPN																												
	IKE	Connection Kit+2nd	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	IPSec		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		IPSec NAT-T	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		IPSec connection protocols: AH, ESP, and AH+ESP	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Encapsulation modes: transport mode and tunnel mode	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		GRE over IPSec	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	NAT traversal		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	GDOI		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
L2TP VPN			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	LAC		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	LNS		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
GSCVPN			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
QoS																												
	ACL	Basic IPv4 ACLs, extended IPv4 ACLs, and Ethernet frame header ACLs, IPv6 ACLs, and user ACLs	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
QoS																												
	Packet marking		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Traffic policing	Supporting traffic rate limit on interfaces, sub-interfaces, Eth-Trunk interfaces, NPVS interfaces, dialer interfaces, VE interfaces, and VT virtual interfaces, and supporting rate limit on traffic directed to the CPU	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Traffic shaping	Supporting traffic shaping on interfaces, sub-interfaces, Eth-Trunk interfaces, NPVS interfaces, dialer interfaces, VE interfaces, and tunnels	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Congestion avoidance	Supporting WRED based on DSCP or IP precedence and	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Congestion management	Supporting SP scheduling, WRR scheduling, and SP+WRR scheduling on interfaces, and PQ/CBWFQ scheduling as well as	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	HQoS																											
		Cluster scheduling and shaping for flows, user queues, interfaces, and	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Hierarchical QoS		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	IPv6 QoS	Supporting IPv6 packet priority marking or remarking, queue scheduling, traffic policing, traffic shaping, traffic classification, and traffic	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	ATM QoS	Configuring CBR, VBR-nrt, VBR-rt, and UBR on the PVC	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
M2C	Traffic classifier, traffic behavior, and traffic		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
SAC	Smart Application Control	Supporting P2P, IM/ Enterprise applications	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Zone																												
Zone pairs																												
	P2E ports	Supporting user-defined ringing mode, interface locking, and interface loopback. Supporting four signaling modes (No. H.248, LDPM) and PVVPHDSE	X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
	FXO ports																											
		POP and PXNP extreme modes	X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
		Remote power supplies on a per	X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
		Loopback on BRI	X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
	ISDN S/T ports	Working mode, remote power supplies on the BRI port, and checking on the BRA card	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	E1 interfaces		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Zone mode																												
	HTP		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	SIP		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Three-way conference, multi-static, multi-dynamic, and multi-dynamic	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		VoIP over E1/T1 over	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	SIP Standard																											
		E1(1, 5, 7(b), 11, 15), T1(1, 3(b), 5(b), 6(b), 7(b), 11(b), 12(b), 15(b), 16(b))	X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
Voice signaling																												
	SIP protocol		X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
		Supporting SIP over E1	X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
Diagnostics and Maintenance																												
	Signaling tracing and versions		X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
	Voice media		X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
	V23/V		X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
	Remote packet		X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
	TR069	Supporting TR069	X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
ISP 2/3																												
	PSTD subscriber classification		X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
	BRA/PRA subscriber classification		X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
	Fax		X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
	Modem		X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
	SIP	SIP over	X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
	Overload control		X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
	BEST	Branch Exchange for Survivable Telephony	X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
	CAC bandwidth limit in	Restricting incoming and outgoing calls when the bandwidth is	X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
PBX																												
	User access	Accessing the PSTD, ISDN, SIP UE, terminal, and BRA terminal	X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
	Trunk interconnection		X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
		Accessing the PSTN network/subscriber line through the E1/T1 and PRA trunks	X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
		Accessing the IMS network by using a SIP IP trunk (SIP PRA or SIP AT)	X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
		Connecting to other IP PBXs by using an SIP IP trunk (IP addresses of the two ends are symmetrical. And the IP trunk cannot be registered.)	X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
	SU trunk		X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
	VSD Gateway		X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X
		Accessing the ISDN network using the ISDN BRA trunk	X	X	X	X	X	X	X	√	X	X	√	X	X	X	X	X	X	√	X	X	√	√	√	X	X

Sub-system	Item	Specification	Model																								
			AR161	AR169W-P	AR161G-HEPA-T	AR196	AR169V	AR167	AR167W	AR167VW	AR207G-HEPA-VT	AR169E	AR169EVW	AR161G-C	AR207V	AR207VW	AR169P	AR169P	AR201	AR201VW-P	AR206	AR207	AR207V	AR207V-P	AR207VW	AR207G-HEPA-VT	AR208E
	Service function																										
		Fast/VoIP mode Connecting to the Internet through an ADSL modem(not gateway) by using a RJ-45 cable	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
		Double-communication and double-standby	x	x	x	x	x	x	x	✓	x	x	✓	x	x	x	x	x	x	✓	x	x	✓	✓	✓	x	x
		Multi-subscriber-number (MSN) service supporting both SIP UA and PSTN	x	x	x	x	x	x	x	✓	x	x	✓	x	x	x	x	x	x	✓	x	x	✓	✓	✓	x	x
		Media proxy for NAT traversal	x	x	x	x	x	x	x	✓	x	x	✓	x	x	x	x	x	x	✓	x	x	✓	✓	✓	x	x
		Multi-party	x	x	x	x	x	x	x	✓	x	x	✓	x	x	x	x	x	x	✓	x	x	✓	✓	✓	x	x
		Blocking and whitelist	x	x	x	x	x	x	x	✓	x	x	✓	x	x	x	x	x	x	✓	x	x	✓	✓	✓	x	x
		CAC	x	x	x	x	x	x	x	✓	x	x	✓	x	x	x	x	x	x	✓	x	x	✓	✓	✓	x	x
		Restricting calls by setting the bandwidth in static mode	x	x	x	x	x	x	x	✓	x	x	✓	x	x	x	x	x	x	✓	x	x	✓	✓	✓	x	x
	Operation and maintenance	PBX functions can be controlled by licenses	x	x	x	x	x	x	x	✓	x	x	✓	x	x	x	x	x	x	✓	x	x	✓	✓	✓	x	x
	Reliability	Associating the SIP server status with the link status and then associating the SIP IP trunk status with the PPPP status	x	x	x	x	x	x	x	✓	x	x	✓	x	x	x	x	x	x	✓	x	x	✓	✓	✓	x	x
Management and maintenance																											
Port mirroring		Mirror packets to observing ports between LAN-side interfaces and WAN-side interfaces, including Ethernet interfaces, serial ports, ATM interfaces, POS interfaces, ISDN interfaces, 3G interfaces, WLAN interfaces, and IMA-group interfaces. Supporting port mirroring on both inbound and outbound interfaces. Supporting port mirroring for traffic sent	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Web management			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
System management		NTP&SNTP Information reset	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	NTP		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Information center		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Command line		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Nms management		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SSH		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	FTP		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	TELNET		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	User management		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Multilingual resource file management		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	File system		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Configuration file management		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Configuration management		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Terminal management		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Supporting console interface, auxiliary interface, and synchronous/asynchronous serial interfaces	Supporting console interface, auxiliary interface, and synchronous serial interfaces	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Gigabit management			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stack management			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
OAM			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Diagnostics and debugging			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SNMP		SNMP v2c/v3/v9, supporting MIB files defined by IEEE802 and others	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
RMON		Supporting 802.3af and 802.3at. The interface maximum	x	✓	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	✓	x	x	x	✓	x	x	x	x
LLDP		Two models use V1 that is compatible with V1 and V2.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
RMON			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
RMON2			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
OAM/P			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Deployment		Downloading the configuration file, software, and patch file from the SVF/iMaster server automatically. Supporting USB-based deployment	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ethernet interfaces																											
RRDB code		Ruijie(like 7812)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WLAN																											
WLAN QoS																											
	MMM function		x	✓	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x
	Power-balance		x	✓	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x
	Traffic control		x	✓	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x
WLAN security																											
	MBF security policy		x	✓	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x
	MPA security policy		x	✓	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x
	MAPI security policy		x	✓	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x
	Key management		x	✓	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x
WLAN radio management																											
	Wireless protocol		x	✓	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x
	Rate, channel, and bandwidth		x	✓	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x
	MAC layer parameters		x	✓	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x
	Radio status in RRDB		x	✓	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x
	802.11n parameters		x	✓	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x
AP management																											
	AP management		x	✓	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x
	Diagnosis and maintenance		x	✓	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x
	VAP management		x	✓	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x
WLAN STA																											
	STA access		x	✓	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x
	STA association		x	✓	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x
	STA information statistics		x	✓	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x
WLAN air-check																											
	Blacklist and whitelist		x	✓	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x
	Access control		x	✓	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x
	Anti-attack		x	✓	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x
WLAN roaming																											
	WLAN roaming		x	✓	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x	x	x	x	✓	x	x
	7th-generation WLAN service		x	✓	x	x	✓	x	✓	✓	x	x	✓	x	x	x	x	x	x	✓	x	x	x	x	✓	x	x	✓	x	x
WLAN VACL																											
AP management																											
	Networking capability	Supporting fat+3Layer 2/Layer 3 network and IPv4 network between APs and fat-AC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AC discovery	Supporting DHCP, DNS, DHCP Option43, DNS-SD, CAPWAP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AP access	Configuring the AP access control mode based on the AP MAC address or serial	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AP management	Querying AP software and hardware, configuration, downloading, and status maintenance	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CAPWAP																											
	CAPWAP Level	Supporting the CAPWAP control	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Networking capability	Supporting fat+Layer 3 network data direct	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
STA management																											
	STA access	Supporting 802.1x, Web, Portal, WAPI-PWA/WAPI-MSS, WAPI-PWA/WAPI-PUS, and MAC authentication	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	STA association	Supporting STA association and roaming between the same/VLAN or inter-VLAN roaming	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AAA	Supporting AAA, VLAN and Layer 3 forwarding, RADIUS server, and STA grouping and ACL authorization	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WLAN radio management																											
	Radio management	Supporting 802.11 radio	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	802.11n	Setting 802.11n parameters	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WLAN security																											
	MBF security policy		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MPA security policy		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MAPI security policy		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Key management		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WLAN air-check																											
	Blacklist and whitelist	Supporting blacklist and whitelist, and allowing WLAN terminals whose logs are cleared	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Communication control	STA communication control as a virtual AP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WLAN QoS																											
	MMM function	Supporting 802.11e	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Power-balance		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	CAR and size limit	Supporting size limit on upstream traffic of a user, a group of users, an interface, AP traffic control, and radio-based rush-STA traffic balancing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WLAN service																											
	Service management	Supporting configuration and management of the WLAN service sets and VAP, automatic service delivery and management, and fat+fit	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Reliability	Supporting 1+1 cold backup, load balancing, and N+1/N+0 cold backup remote AC/c	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Sub-system	Item	Specification	AR1220	AR1220-DC	AR1220F	AR1220V	AR1220W	AR1220VW	AR1220L	AR2201-48FE	AR2202-48FE	AR2204	AR2220	AR2240(SRU40)	SRU60	AR3260(SRU80)	AR3260 (SRU2080)	AR3260 (SRU4080)
System specification																		
	Main control system																	
		Processor	500 MHz 2 Core	500 MHz 2 Core	500 MHz 2 Core	500 MHz 2 Core	500 MHz 2 Core	500 MHz 2 Core	500 MHz 2 Core	533 MHz 2 Core	533 MHz 2 Core	800 MHz 2 Core	600 MHz 4 Core	600 MHz 8 Core		800 MHz 12 Core	1.2GHz 32 Core	
		Switching capacity of the system	8 Gbit/s	8 Gbit/s	8 Gbit/s	8 Gbit/s	8Gbit/s	8 Gbit/s	8 Gbit/s	10 Gbit/s	10 Gbit/s	10 Gbit/s	32 Gbit/s	80 Gbit/s	80 Gbit/s	160 Gbit/s	160 Gbit/s	160 Gbit/s
		Switching capacity of each slot	2 Gbit/s for a SIC/WSIC card	2 Gbit/s for a SIC/WSIC card	2 Gbit/s for a SIC/WSIC card	2 Gbit/s for a SIC/WSIC card	2 Gbit/s for a SIC/WSIC card	2 Gbit/s for a SIC/WSIC card	2 Gbit/s for a SIC/WSIC card	-	-	2 Gbit/s for a SIC/WSIC card	2 Gbit/s for a SIC/WSIC card	2 Gbit/s for a SIC/WSIC card	2 Gbit/s for a SIC/WSIC card	2 Gbit/s for a SIC/WSIC card	2 Gbit/s for a SIC/WSIC card	2 Gbit/s for a SIC/WSIC card
			X	-	X	X	X	X	X	-	-	-	20 Gbit/s for an XSIC/ EXSIC slot	20 Gbit/s for an XSIC/ EXSIC slot	20 Gbit/s for an XSIC/ EXSIC slot	20 Gbit/s for an XSIC/ EXSIC slot	20 Gbit/s for an XSIC/ EXSIC slot	20 Gbit/s for an XSIC/ EXSIC slot
		Real-time clock (RTC)	Y	√	Y	Y	Y	Y	Y	√	√	√	Y	Y	√	Y	√	√
		Memory (default/maximum)	512 M	512M	512 M	512M	512M	512M	512M	512M	512M	1G	2G	2G	2G	2G	8G	8G
		Flash memory	256 M	256M	512M	256M	256M	256M	256M	512M	512M	512M	16M	16M	16M	16M	16M	16M
		Micro SD card memory (default/maximum)	0	0	0	0	0	0	0	0	0	0/4G	2/4G	2/4G	2/4G	2/4G	2G/4G	2G/4G
		SIC slot	2	2	2	2	2	2	2	0	0	4	4	4	4	4	4	4
		WSIC slot	There is no WSIC slot by default. Two SIC slots can be combined into one WSIC slot.	There is no WSIC slot by default. Two SIC slots can be combined into one WSIC slot.	There is no WSIC slot by default. Two SIC slots can be combined into one WSIC slot.	There is no WSIC slot by default. Two SIC slots can be combined into one WSIC slot.	There is no WSIC slot by default. Two SIC slots can be combined into one WSIC slot.	There is no WSIC slot by default. Two SIC slots can be combined into one WSIC slot.	There is no WSIC slot by default. Two SIC slots can be combined into one WSIC slot.	0	0	There is no WSIC slot by default. Two SIC slots can be combined into one WSIC slot. The system supports a maximum of two WSIC slots.	There are two WSIC slots by default. SIC slots 1 and 2 can be combined into a WSIC slot, and SIC slots 3 and 4 can be combined into a WSIC slot. The system supports a maximum of four WSIC slots.	There are two WSIC slots by default. SIC slots 1 and 2 can be combined into a WSIC slot, and SIC slots 3 and 4 can be combined into a WSIC slot. The system supports a maximum of four WSIC slots.	-	2	There are two WSIC slots by default. SIC slots 1 and 2 can be combined into a WSIC slot, and SIC slots 3 and 4 can be combined into a WSIC slot. The system supports a maximum of four WSIC slots.	There are two WSIC slots by default. SIC slots 1 and 2 can be combined into a WSIC slot, and SIC slots 3 and 4 can be combined into a WSIC slot. The system supports a maximum of four WSIC slots.
		XSIC slot	0	0	0	0	0	0	0	0	0	0	There is no XSIC slot by default. The SIC slot and WSIC slot can be combined into two XSIC slots. The system supports a maximum of two XSIC slots.	There are two XSIC slots by default. The SIC slot and WSIC slot can be combined into two XSIC slots. The system supports a maximum of four XSIC slots.	-	There are four XSIC slots by default. The SIC slot and WSIC slot can be combined into two XSIC slots. The system supports a maximum of six XSIC slots.	There are four XSIC slots by default. The SIC slot and WSIC slot can be combined into two XSIC slots. The system supports a maximum of six XSIC slots.	There are four XSIC slots by default. The SIC slot and WSIC slot can be combined into two XSIC slots. The system supports a maximum of six XSIC slots.
		EXSIC slot (share with XSIC slot)	0	0	0	0	0	0	0	0	0	0	0	1	-	1	1	1
		DSP	0	0	0	The 32-channel voice is supported by default.	0	The 32-channel voice is supported by default.	0	0	0	The MAX 32-channel voice is supported.	The MAX 128-channel voice can be supported.	The MAX 384-channel voice can be supported.	The MAX 384-channel voice can be supported.	The MAX 384-channel voice can be supported.	N/A	N/A
		DSP slot	0	0	0	0	0	0	0	0	0	2	1	3	3	3	N/A	N/A
	Fixed interface																	
		Fixed FE LAN port (LAN port)	8	8	8	8	8	8	0	48	48	8	0	0	0	0	0	0
		Fixed GE WAN port (WAN port)	2	2	2	2	2	2	2	2 (one Combo port included)	2 (one Combo port included)	3 (one Combo port included)	3 (one Combo port included)	3 (two Combo ports included)	3 (two Combo ports included)	3 (two Combo ports included)	4GE Combo+2*10GE	4GE Combo+2*10GE
		Wi-Fi port	N	X	N	N	802.11 b/g/n	802.11 b/g/n	N	X	X	X	N	N	X	N	X	X
		USB port (2.0)	2	2	2	2	2	2	2	1	1	2	2	2	2	2	2	2
		SD card port	0	0	0	0	0	0	0	0	0	1 (External)	2(Internal and external)	2(Internal and external)	2(Internal and external)	2(Internal and external)	2(Internal and external)	2(Internal and external)
		USB console port	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		AUX/Console port	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		3G port	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supported by USB	Supported by USB
		KingSton lock	√	√	√	√	√	√	√	X	X	X	X	X	X	X	X	X
		ESD wrist jack	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Power supply																	
		Rated input voltage (AC)	AC: 100-240V 50/60Hz	-	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	AC: 100-240V 50/60Hz	-	AC: 100-240V 50-60Hz	AC：100～240V 50/60Hz	AC：100～240V 50/60Hz
		Maximum input voltage (AC)	AC: 85-264V 47/63Hz	-	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63 Hz	-	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz	AC: 85-264V 47/63Hz
		Rated input voltage (DC)	N	-42 to -53Vdc	N	N	N	N	N	-	-	-	–48 V to –60 V	–48 V to –61 V	-	–48 V to –62 V	–48 V to –62 V	–48 V to –62 V
		Maximum input voltage (DC)	N	-38.4 to -72Vdc	N	N	N	N	N	-	-	-	–38.4 V to –72 V	–38.4 V to –73 V	-	–38.4 V to –74 V	-38.4～-72V	-38.4～-72V
		Maximum power capacity	54 W	60 W	54 W	54 W	54 W	54 W	54 W	60 W	60 W	150 W	150 W	700 W for dual power supplies. Optionally, you can configure a single power supply 350	-	700 W for dual power supplies. Optionally, you can configure a single power supply 350 W.	700 W for dual power supplies. Optionally, you can configure a single power supply 350 W.	700 W for dual power supplies. Optionally, you can configure a single power supply 350 W.
		PoE (W)	N	X	N	External power 100 W. Only four fixed ports (FE4-FE7) are supported.	External power 100 W. Only four fixed ports (FE4-FE7) are supported.	External power 100 W. Only four fixed ports (FE4-FE7) are supported.	N	X	X	X			-		X	X
		Power supply redundancy	N	X	N	N	N	N	N	√ (RPS)	√ (RPS)	√ (RPS)	N	Y	-	Y	√	√
	Physical specifications																	
		Dimensions (H x W x D)	With rack-mounting ear: 44.5 mm x 482.6 mm x 220 mm Without rack-mounting ear: 44.5 mm x 390 mm x 220 mm	With rack-mounting ear: 44.5 mm x 482.6 mm x 220 mm Without rack-mounting ear: 44.5 mm x 390 mm x 220 mm	With rack-mounting ear: 44.5 mm x 482.6 mm x 220 mm Without rack-mounting ear: 44.5 mm x 390 mm x 220 mm	With rack-mounting ear: 44.5 mm x 482.6 mm x 220 mm Without rack-mounting ear: 44.5 mm x 390 mm x 220 mm	With rack-mounting ear: 44.5 mm x 482.6 mm x 220 mm Without rack-mounting ear: 44.5 mm x 390 mm x 220 mm	With rack-mounting ear: 44.5 mm x 482.6 mm x 220 mm Without rack-mounting ear: 44.5 mm x 390 mm x 220 mm	With rack-mounting ear: 44.5 mm x 482.6 mm x 220 mm Without rack-mounting ear: 44.5 mm x 390 mm x 220 mm	With rack-mounting ear: 44.5 mm x 482.6 mm x 310 mm Without rack-mounting ear: 44.5 mm x 442 mm x 310 mm		With rack-mounting ear: 44.5 mm x 482.6 mm x 420 mm Without rack-mounting ear: 44.5 mm x 442 mm x 420 mm	With rack-mounting ear: 44.5 mm x 482.6 mm x 420 mm Without rack-mounting ear: 44.5 mm x 442 mm x 420 mm	With rack-mounting ear: 88.1 mm x 482.6 mm x 470 mm Without rack-mounting ear: 88.1 mm x 442 mm x 470 mm		With rack-mounting ear: 130.5 mm x 482.6 mm x 470 mm Without rack-mounting ear: 130.5 mm x 442 mm x 470 mm	With rack-mounting ear: 130.5 mm x 482.6 mm x 470 mm Without rack-mounting ear: 130.5 mm x 442 mm x 470 mm	With rack-mounting ear: 130.5 mm x 482.6 mm x 470 mm Without rack-mounting ear: 130.5 mm x 442 mm x 470 mm
		Weight	2.9KG	2.9KG	2.9KG	2.9 kg (5/4W power supply, no card)	2.9 kg (5/4W power supply, no card)	2.9 kg (5/4W power supply, no card)	2.9KG	4.8KG	4.8KG	6 kg (no card)	4.95 kg (without power supply or card)	8.85 kg (without power supply or card)	-	11 kg (without power supply or card)	11 kg (without power supply or card)	11 kg (without power supply or card)
		Environment temperature																
		Humidity																
	Reliability																	
		Module hot swap	Y	√	Y	Y	Y	Y	Y	X	X	√	Y	Y	√	Y	√	√
		Power module hot swap	N	X	N	N	N	N	N	X	X	X	Y	Y	√	Y	√	√
		Fan module hot swap	N	X	N	N	N	N	N	X	X	X	N	Y	√	Y	√	√
		Main control board hot swap	N	X	N	N	N	N	N	X	X	X	N	Y	√	Y	√	√
		MTBF (year)	29.03967	29.03967	29.03967	29.03967	29.03967	29.03967	29.03967	62.34	62.34	59.17	25.34	30.004 (dual power supplies + one SRU + 24 GE + fan)	-	35.33 (dual power supplies + one SRU + 24 GE + fan)	35.33 (dual power supplies + one SRU + 24 GE + fan)	35.33 (dual power supplies + one SRU + 24 GE + fan)
		MTTR (hour)	2	2	2	2	2	2	2	2	2	2	0.5	0.5 (dual power supplies + one SRU + 24 GE + fan)		0.5 (dual power supplies + one SRU + 24 GE + fan)	0.5	0.5
	Performance																	
		Basic forwarding performance (64-byte packets)	450kpps	450kpps	1.5Mpps	450kpps	450kpps	450kpps	450kpps	350Kpps	350Kpps	450Kpps	1Mpps	2Mpps	2.5Mpps	4Mpps	20Mpps	40Mpps
		NAT + ACL + QoS forwarding bandwidth (IMIX, bidirectional forwarding)	200M	200M	400M	200M	200M	200M	200M	200M	200M	200M	400M	600M	800Mpps	1800M	4.5G	5.5G
		IPSec forwarding bandwidth (bps, IMIX, unidirectional forwarding)	200M	200M	230M	200M	200M	200M	200M	200M	200M	200M	300M	1000M	1400M	2000M	7G	8.5G
		FW forwarding bandwidth (bps, IMIX, unidirectional forwarding)	800M	800M	1500M	800M	800M	800M	800M	600M	600M	600M	1200M	4500M	5000M	5500M	10G	16G
		MAC entry	2K	2K	2K	2K	2K	2K	2K	2K	2K	2K	4K	4K	4K	8K	8K	8K
		ARP entry	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	4000	4000	4000	4000	8000	8000
		Number of VLANs	128	128	128	128	128	128	128	128	128	128	4094	4094	4094	4094	4094	4094
		Number of IPv4 routes on a device	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	80000	200000	400000	500000	800000	1000000
		Number of FIB4 forwarding tables on a device	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	80000	200000	400000	500000	800000	1000000
		Number of IPv6 routes on a device	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	30000	50K	80K	100K	150K	200K
		Number of FIB6 forwarding tables on a device	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	30000	50K	80K	100K	150K	200K
		Maximum number of PPPoE users that access a local Ethernet network	128	128	128	128	128	128	128	128	128	128	512	512	512	1024	1024	1024
		Maximum number of global address pools	64	64	64	64	64	64	64	64	64	64	128	128	128	128	128	128
		Maximum number of test instances that can be created on an NQA client	64	64	64	64	64	64	64	64	64	64	128	128	128	256	6000	6000
		Number of concurrent responses (UDP and TCP responses) by an NQA server	32	32	32	32	32	32	32	32	32	32	64	64	64	128	1000	1000
		Maximum number of VRFs	64	64	64	64	64	64	64	64	64	64	128	256	256	1000	2000	4000
		Number of VPN routes on a device	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	30000	30000	30000	100000	1 VRF:500K; 1K VRF:400; 4K VRF: 100	1 VRF:800K; 1K VRF:800; 4K VRF: 200
		Maximum number of MPLS labels (sharing the public/private network label)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	2000	2000	2000	8000	32000	64000
		Number of IPSec tunnels	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	4000	4000	4000	6000	6000	6000
		Number of L2TP tunnels	128	128	128	128	128	128	128	128	128	128	512	512	512	1024	1024	1024
		Number of L2TP sessions	128	128	128	128	128	128	128	128	128	128	512	512	512	1024	1024	1024
		Number GRE tunnels	256	256	256	256	256	256	256	256	256	256	512	512	512	1024	2048	4096
		Maximum number of SSL VPN access users	50	50	50	50	50	50	50	50	50	50	100	100	100	200	200	200
		Maximum of concurrent SSL connections on a device	1024	1024	1024	1024	1024	1024	1024	512	512	512	1024	1024	1024	2048	2048	2048
		Maximum number of configured ACLs	4K	4K	4K	4K	4K	4K	4K	4K	4K	4K	8K	8K	8K	16K	32K	64K
		Maximum number of configured IPv6	512	512	512	512	512	512	512	512	512	512	1024	1024	1024	2048	6K	8K
		Maximum number of NAT address pool	8	8	8	8	8	8	8	8	8	8	16	16	16	32	32	32
		Number of IP addresses in each NAT address pool	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
		Maximum number of concurrent NAT connections	64K	64K	64K	64K	64K	64K	64K	32K	32K	32K	128K	300K	300K	400K	500K	500K
		Maximum number of concurrent connections to the firewall	32K	32K	16K	32K	32K	32K	32K	16K	16K	16K	64K	64K	64K	200K	500K	500K
		Maximum number of concurrent calls	-	-	-	100	-	100	-	-	-	125	250	250	400	400	500	N/A
		Maximum of DSP channels (PBX and	-	-	-	32/32channels	-	32/32channels	-	-	-	32	128/32channels	（128/32channels）	（128/32channels）	（128/32channels）×	N/A	N/A

Sub-system	Item	Specification	AR1220	AR1220-DC	AR1220F	AR1220V	AR1220W	AR1220VW	AR1220L	AR2201-48FE	AR2202-48FE	AR2204	AR2220	AR2240(SRU40)	SRU60	AR3260(SRU80)	AR3260 (SRU200)	AR3260 (SRU400)
		Maximum number of registered SIP UEs (PBX and AG BEST)	-	-	-	256	-	100	-	-	-	250	250	400	400	500	N/A	N/A
		Rule set of the voice blacklist and	-	-	-	18	-	18	-	-	-	18	18	18	18	18	N/A	N/A
		Maximum number of rules that can be configured for each blacklist and whitelist	-	-	-	64	-	64	-	-	-	64	64	64	64	64	N/A	N/A
		Number of MPLS LDP VCs	64	64	64	64	64	64	64	64	64	64	128	256	256	512	2K	4K
		Maximum number of 6over4 tunnels	256	256	256	256	256	256	256	256	256	256	512	512	512	1024	1024	1024
		Maximum number of 4over6 tunnels	256	256	256	256	256	256	256	256	256	256	512	512	512	1024	1024	1024
		Recommended number of APs that the AC can manage	12	12	12	12	12	12	12	12	12	12	16	16	16	32	64	128
		Maximum number of concurrent users allowed by the AC	200	200	200	200	200	200	200	200	200	200	240	300	300	500	1K	2K
Feature																		
Ethernet port management																		
	Ethernet port	EthernetII packets(RFC 894), SNAP packets(802.3 SNAP)	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Link aggregation	IEEE 802.3ad	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	LACP	Supports static LACP, M:N backup among member interfaces in an aggregation group	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
LAN access																		
VLAN management																		
	Basic VLAN	IEEE 802.1P, 802.1Q	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Interface link type	Access, trunk, and hybrid	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	VLAN aggregation	Super-VLAN and DHCP relay in a Super-VLAN	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Guest VLAN		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Voice VLAN		X	X	X	X	X	X	X	X	X	X	√	√	√	√	√	√
	GVRP		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	VLANIF interface		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
MAC address management																		
	Static MAC address and dynamic MAC address		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	MAC address limit		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Sticky MAC address		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	MAC address flapping defense		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Invalid MAC address alarm	AR200/AR1200 with fixed 8FE interface does not support packets discarding.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
STP																		
	MSTP	IEEE 802.1d (STP), 802.1w (RSTP), 802.1s (MSTP)	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	MSTP security		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
LLDP			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
WAN																		
Port management																		
	Port isolation																	
		Support port isolation modes: (1) Layer 2 and Layer 3 service isolated. (2) Layer 2 service isolation and Layer 3 services not isolated.																
		Port isolation group	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Unidirectional isolation	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
WAN																		
	LAN interface	Supporting EthernetII, SNAP, and VLAN	√	√	√	√	√	√	√	√	√	√	√	√	√	√		
	Synchronous serial port		√	√	√	√	√	√	√	X	√	√	√	√	√	√	√	√
		Configuring the serial port to work in synchronous/asynchronous mode	√	√	√	√	√	√	√	X	√	√	√	√	√	√	√	√
		The synchronous serial port supports three link layer protocols: HDLC, FR, and PPP. The PPP protocol is used by default.	√	√	√	√	√	√	√	X	√	√	√	√	√	√	√	√
		The asynchronous serial port support PPP encapsulation,	√	√	√	√	√	√	√	X	√	√	√	√	√	√	√	√
		Setting the maximum receive unit (MRU) The default value is 1500 bytes. The value ranges from 128 to 1500.	√	√	√	√	√	√	√	X	√	√	√	√	√	√	√	√
	CE1/PRI		√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		Working in E1, CE1, or PRI mode	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		Timeslot binding	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		Timeslot binding on the PRI interface	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
	CT1 interface	ANSI T1.403, Timeslot binding on the CT1 interface	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
	ADSL interface		√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		The ADSL line complies with ADSL2 (G992.3), ADSL2+ (G992.5), G.DMT (G992.1), and T1.413 standards.	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		Compatible with Annex A, B, C, and M modes	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		Supporting ATM packet mode	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
	G.SHDSL interface		√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		Setting the ATM/PTM working mode of the SHDSL board	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		Setting the SHDSL standard: supporting G991.2 and G991.2 (Bis).	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
	E1-F interface		√	√	√	√	√	√	√	X	√	√	√	√	√	√	√	√
		Working in framed mode	√	√	√	√	√	√	√	X	√	√	√	√	√	√	√	√
		Working in unframed mode	√	√	√	√	√	√	√	X	√	√	√	√	√	√	√	√
		Configuring HDB3 as the encoding and decoding mode	√	√	√	√	√	√	√	X	√	√	√	√	√	√	√	√
	E1-IMA	Complying with ITUT G.703 and HDB3 coding standards	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
	T1-F interface		√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		Working in framed mode	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		Setting transmission line attenuation	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		Timeslots binding on a T1-F interface	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		Configuring B8ZS as the encoding and decoding mode	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		Setting the line clock mode	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		Configuring a T1-F interface to invert user data	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
	ISDN BRI interface		√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		Setting the maximum receive unit (MRU)	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		Supporting remote loopback	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		Supporting local loopback	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
	CPOS interface	Setting features of CPOS, E1, and T1 interfaces	X	X	X	X	X	X	X	X	X	√	√	√	√	√	√	√
	POS	ITUT G.707 SONET OC-3/SDH STM-1	X	X	X	X	X	X	X	X	X	√	√	√	√	√	√	√

Sub-system	Item	Specification	AR1220	AR1220-DC	AR1220F	AR1220V	AR1220W	AR1220VW	AR1220L	AR2201-48FE	AR2202-48FE	AR2204	AR2220	AR2240(SRU40)	SRU60	AR3260(SRU80)	AR3260 (SRU200)	AR3260 (SRU400)
	Asynchronous serial port		√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		Setting the link-layer protocol	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		Configuring the stream working mode	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		Configuring the protocol working mode	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
	Modem		√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		Setting the call-in and call-out permissions	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		Auto-reply mode	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
	xPON		√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		GPON	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		EPON	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
	VDSL2	Compatible with ANNEX A/M	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
	3G interface (WCDMA)		√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
x86 card																		
	SAE220		√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
	SAE550		X	X	X	X	X	X	X	X	X	X	√	√	√	√	√	√
Interface backup																		
	Interface backup	Configuring a dialer interface as a backup interface, Setting load balancing mode of backup interfaces	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Association test on interface backup	Configuring association between interface backup and routing	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Bridge management																		
	Transparent bridge																	
		Configuring a static MAC address for a bridge group																
		Blackhole MAC address entries	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Type of packets that can be forwarded by bridge interfaces																
		Link encapsulation protocol on the member interface																
		Member interface type: Serial interfaces (HDLC and PPP) FR interfaces and sub-interfaces ATM interfaces and sub-interfaces Eth interfaces and sub-interfaces VLANIF interfaces Dialer interfaces MFR interfaces and sub-interfaces MP interfaces VT interfaces (PPPoFR and PPPoE)	√	√	√	√	√	√	√	√	√	√	√	√	√	√		
		Physical interfaces: Eth, E1/T1, SA, xDSL and ISDN interfaces	√	√	√	√	√	√	√	√	√	√	√	√		√	√	√
Logical interface		Support Dialer interface, loopback interface, NULL interface, VT interface, VE interface, MP-Group interface, MFR interface, tunnel interface, Bridge-if interface, and Ethernet sub-interface	√	√	√	√	√	√	√	√	√	√	√	√	√	√		
ATM																		
		Supporting P2P and P2MP sub-interfaces.	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		Carrying the IPoEoA service	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		Carrying the IPoA service	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		PPP and PPPoE over PVC	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		InARP	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		CC, Loopback, AIS/RDI, and ATM ping	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
		PVC group	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
Frame relay		FRoISDN, PPPoFR/PPPoMFR, and MPoFR	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
HDLC			√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
DCC		Route backup, circular DCC, resource-shared DCC, DCC call, DCC dialer interface, and DCC dialer list	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
PPPoE			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
ISDN	DSS1	ITU-T Q.921, ITU-T Q.931	√	√	√	√	√	√	√	X	X	√	√	√	√	√	√	√
PPP		Supporting PRI interfaces																
	PPP	PPPoE, PPPoA, PPPoEoA, PPPoFR, and PPPoISDN services	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	MP	MPoFR and MPoISDN services	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
3G	3G		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
IP																		
NAT																		
	Basic NAT																	
		PAT address pool mode	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		NOPAT address pool mode (supporting TCP, UDP, and ICMP)	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Easy IP mode (supporting TCP, UDP, and ICMP)	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Overlapping NAT (supporting TCP, UDP, ICMP, and other special protocol connections)	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	NAT ALG	DNS, DNS mapping, FTP, ICM, RTSP, and SIP	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Log	Log recording mode, log recording format, and flow logs.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
NetStream		Original stream, flexible stream, aggregated stream, and stream collection	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
ARP																		
	Basic ARP																	
		Static ARP entries for main interfaces Static ARP entries for VLANIF interfaces Static ARP entries for dot1q termination interfaces Static ARP entries in VPN-instance mode	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		ARP-related functions of a Layer 3 VPN	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Layer 2 topology detection	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Address conflict detection	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Classification statistics of ARP packets	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	ARP proxy	ARP proxy anti-attack, route gateway proxy, intra-VLAN proxy, and inter-VLAN proxy	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	ARP ping	ARP ping IP address and ARP ping MAC address	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
IPv4 protocol stack																		
	IPv4 forwarding		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	IP options		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	TCP, UDP, and ICMP		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Socket		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√

Sub-system	Item	Specification	AR1220	AR1220-DC	AR1220F	AR1220V	AR1220W	AR1220VW	AR1220L	AR2201-48FE	AR2202-48FE	AR2204	AR2220	AR2240(SRU40)	SRU60	AR3260(SRU80)	AR3260 (SRU200)	AR3260 (SRU400)
	Ping	IP ping and VRF ping	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Source address verification	Authenticating the source address of the IP packets and discarding packets with invalid addresses	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	TRACERT	IP tracert and VRF tracert	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Broadcast packet forwarding	Controlling whether to forward broadcast packets on a specified interface																
	Forwarding load balancing	Equal-cost multipath (ECMP)	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Resetting the DF field	Configuring an outbound interface to fragment IP packets	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Policy-based routing	Local policy routes, loading balancing of policy routes	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
IPv6 protocol stack																		
	IPv6 forwarding		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	TCP6, UDP6, ICMP6		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Socket6		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	PING6		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	TRACERT6		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	IPv6 PMTU		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	ND		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
IPv6 transition technology																		
	6over4 tunnel	Supporting 6over4 manual tunnels, 6over4GRE tunnels, IPv4-compatible address automatic tunnels, 6to4 tunnels, 6to4 tunnel trunks, and ISATAP tunnels	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	4over6 tunnel	Supporting 4over6 tunnels, and setting the traffic label value for a tunnel, the hop limit value for a tunnel, the traffic level for a tunnel, and the encapsulation limit value	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
DNS																		
	DNS Client	Configuring the DNS server statically and dynamically obtaining the DNS server address	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	DNS proxy/relay		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	DDNS		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	DNS6 Client		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	DNS6 Proxy/Relay		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
VRRP																		
	IPv4 VRRP		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		VRRP backup and VRRP load balancing	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Supporting simple authentication /MD5 authentication	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		VRRP in an L3 VPN	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		VRRP in a super-VLAN	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		VRRP detect NQA detection status	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		VRRP detect attainability of single route	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	VRRP6		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	VRRP6 association		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	VRRP association		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	BFD and BFD applications		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
NQA																		
	ICMP/UDP/TCP/SNMP/FTP/HTTP UDP jitter test/DHCP/Trace/DNS test	Supporting command line/MIB configuration	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	NQA server		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
DHCP																		
	DHCP relay		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		WAN-side Layer 3 interfaces: Ethernet interfaces and sub-interfaces, Eth-Trunk main interfaces and sub-interfaces (QinQ sub-interfaces are not supported). LAN-side Layer 3 interfaces: VLANIF interfaces and super-VLAN interfaces.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		DHCP servers in a VPN	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	DHCP server		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		WAN-side Layer 3 interfaces: Ethernet interfaces and sub-interfaces, Eth-Trunk main interfaces and sub-interfaces (QinQ sub-interfaces are not supported). LAN-side Layer 3 interfaces: VLANIF interfaces and super-VLAN interfaces.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	DHCP security	Restricting the rate of DHCP packets by entire equipment, by port, by VLAN, and restricting the rate of dynamic DHCP packets	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	DHCP Client	WAN-side Layer 3 interfaces: Ethernet interfaces and sub-interfaces, Eth-Trunk main and sub-interfaces, and VE interfaces. (QinQ sub-interfaces are not supported)	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
DHCPv6																		
	DHCPv6 Client		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	DHCPv6 Relay		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	DHCPv6 [illegible]		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
IP accounting		Supporting IP packet statistics, IP priority statistics, and IP packet statistics based on the filtering rule	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
UDP helper			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Unicast route																		
Unicast route management																		
	IPV4 and IPV6 routing table management	Route selection, limit of routing table capacity, load balancing, route selection, and priority-based route convergence	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	FIB4 and FIB6	Supporting IPv4 FIB	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	IP FRR	Supporting manual IP FRR of the public network, manual IP FRR for the private network, and IP Auto FRR for the private network	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
route policy																		
	Routing policy filter	ACL, ip-prefix, community-filter, extcommunity-filter, as-path-filter, or rd-filter can be used as a route filter.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	route-policy	Route-policy configuration, if-match rule, actions of the apply policy, and universal match rule	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√

Sub-system	Item	Specification	AR1220	AR1220-DC	AR1220F	AR1220V	AR1220W	AR1220VW	AR1220L	AR2201-48FE	AR2202-48FE	AR2204	AR2220	AR2240(SRU40)	SRU60	AR3260(SRU80)	AR3260 (SRU200)	AR3260 (SRU400)
Static routes	Static IPv4 and IPV6 routes	Specified outbound interface, load balancing, and configuration of static routes on a private network	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
RIP		RIPv1/v2, RIPng	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
OSPF		OSPFv2, OSPFv3	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Types of protocol interfaces: point-to-point, broadcast, NBMA, point-to-multipoint	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Stub area and NSSA area	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
IS-IS		ISIS, ISISv6	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Types of network interfaces: supports P2P networks and broadcast networks. NBMA networks are not supported and they can be supported only when NBMA networks are simulated as P2P networks. xDSL interfaces: IS-IS is not supported in PPPoA/IPoA links.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Load balancing	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Configuration of the three-way handshake negotiation mode	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Packet authentication: simple plain-text authentication mode, HMAC MD5 authentication mode and keychain authentication mode	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		IPv4 multi-instance	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		IGP-BGP association and IGP-LDP association	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
BGP		BGP-4	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		BGP4+	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		MP-BGP	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
SPR		Smart Policy Route	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Multicast																		
Multicast route			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
MBGP			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
IGMP		IGMPv1/v2/v3	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
IGMP Proxy			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
PIM																		
	PIM-DM		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	PIM-SM		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	PIM-SSM		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
MSDP			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
IGMP- MLD snooping		IGMP-snooping v1/v2/v3	X	X	X	X	X	X	X	√	√	√	√	√	√	√	√	√
		IGMP-snooping v1/v2/v3	X	X	X	X	X	X	X	√	√	√	√	√	√	√	√	√
MPLS																		
MPLS-Stack																		
	MPLS on the public network		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Assignment of consecutive labels and assignment of specified labels	√	√	√	√	√	√	√		√	√	√	√	√	√	√	√
		Supporting dynamic assignment of LDP LSP labels, BGP LSP labels, and L3 VPN LSP labels. Dynamic assignment of RSVP LSP labels or L2VPN LSP labels or VPLS LSP labels are not supported.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Static LSP	support L3 VPN	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	MPLS QoS	Mapping in DiffServ mode on L3 VPNs (Supporting E-LSP, not supporting L-LSP)	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
LDP																		
	IPv4 LDP		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	LDP FRR	Supporting manual LDP FRR and LDP Auto FRR	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
L3 VPN																		
	MPLS/BGP VPN	Hub-Spoke VPN HoVPN L3 VPN users accessing the Internet Mutual access between local VPNs Inter-area option A, B, C Load balancing Filtering policy for VPN import/export routes MCE	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	VPN FRR	Supporting manual VPN FRR and VPN Auto FRR	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
L2 VPN																		
	VLL	Supporting local CCC, SVC VLL, Martini VLL, and inter-domain Martini VLL	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	PWE3	Supporting the single-hop PW and ping and tracert detection modes	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
MPLS TE																		
	MPLS TE base		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	MPLS TE reliability		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Security																		
Firewall																		
	Packet filtering firewall	Packet filtering based on basic ACLs, advanced ACLs, and time range ACLs.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	ASPF																	
		ASPF detection protocols: TCP/UDP/ICMP/FTP/HTTP/SIP/RTSP	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Java blocking	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		ActiveX blocking	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		IP fragment packet detection	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		ACL-based PAM	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Attack defense																	
		Defense against ICMP redirection packets, ICMP unreachable packets, port scanning packets, Tracert attacks, land attacks, Smurf attacks, Fraggle attacks, WinNuke attacks, IP-fragment attacks, teardrop attacks, ping of death attacks, oversized ICMP packet attacks, malformed TCP packet attacks, and flood attacks.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Limit on global connections (TCP, ICMP, UDP, fragment, and half connections), interzone connections, connections to a destination IP address, and connections from a source IP address.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Static blacklist and static whitelist	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√

Sub-system	Item	Specification	AR1220	AR1220-DC	AR1220F	AR1220V	AR1220W	AR1220VW	AR1220L	AR2201-48FE	AR2202-48FE	AR2204	AR2220	AR2240(SRU40)	SRU60	AR3260(SRU80)	AR3260 (SRU2000)	AR3260 (SRU4000)
	Attack logs																	
		Saving logs	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Log format	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Blacklist logs	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Traffic alarm and alarm clearance logs	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Attack defense logs	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Packet filtering logs	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Active/Standby mechanism																	
		Supporting HSB service configuration and status maintenance	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Supporting HSB group configuration and status maintenance	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Recording logs when HSB channel disconnection occurs	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Active/Standby firewall																	
		Supporting firewall service information synchronization	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	NGFW																	
		IPS	X	X	X	X	X	X	X	√	√	√	√	√	√	√	√	√
		URL filtering	X	X	X	X	X	X	X	√	√	√	√	√	√	√	√	√
Access security																		
	802.1x authentication	IEEE 802.1x 2004	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Interface/MAC address-based 802.1x authentication	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		EAPoL termination/relay authentication	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Guest VLAN and restrict VLAN	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		VLAN and ACL information delivered by the RADIUS server	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		EAP-MD5 authentication and MAC address bypass authentication	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	MAC address authentication		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		User-based MAC address authentication	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Web authentication	Portal 2.0 and local Portal authentication	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	User access management																	
		Supporting user group-based authorization	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Supporting user group bandwidth, VLAN, and user priority authorization	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Supporting ACL, VLAN, UCL authorization by the RADIUS server	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Supporting the MIB function of user groups	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Attack log		√	√	√	√	√	√	√				√	√	√	√	√	√
Storm suppression		Interface-based broadcast traffic suppression, multicast traffic suppression, and unknown unicast traffic suppression	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
ARP security																		
	ARP packet suppression																	
		ARP packet suppression based on source IP addresses, global ARP packet suppression, and ARP packet suppression based on interfaces	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		ARP Miss packet suppression based on source IP addresses and global ARP Miss packet suppression	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		ARP packet rate limit based on the super VLAN	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Limit on dynamic ARP entries	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Strict ARP learning	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	ARP spoofing																	
		Sending gratuitous ARP packets	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		ARP anti-spoofing mode: fixed-mac, fixed-all, and send-ack.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		ARP gateway anti-collision	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	DAI		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
IP security																		
	ICMP attack defense	Global ICMP packet suppression, Interface-based ICMP packet suppression	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	uRPF		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	IPSG		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	DHCP snooping	Supporting global, interface-based, and VLAN-based DHCP snooping. Supporting dynamic and static DHCP snooping binding tables.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	DHCPv6 Snooping	Supporting DHCP snooping globally, on an interface, and in a VLAN, and supporting dynamic and static DHCP snooping binding tables	X	X	X	X	X	X	X	√	√	√	√	√	√	√	√	√
CPU-defend																		
	CPCAR		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Blacklist		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Attack source tracing		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
AAA			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Authentication	Supporting none authentication, local authentication, RADIUS authentication, HWTACACS authentication, PAP/CHAP authentication, EAP termination authentication, and EAP relay authentication	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Authorization	Supporting none authorization, local authorization, HWTACACS authorization, and authorization after successful RADIUS authentication. One or more authorization modes can be used together	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Accounting	Supporting none accounting, RADIUS accounting, and HWTACACS accounting	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Command line authorization	Supporting command line authorization for management users, command line authorization using the HWTACACS server, and command line authorization in local mode	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
RADIUS			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
HWTACACS			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
PKI			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
VPN																		

Sub-system	Item	Specification	AR1220	AR1220-DC	AR1220F	AR1220V	AR1220W	AR1220VW	AR1220L	AR2201-48FE	AR2202-48FE	AR2204	AR2220	AR2240(SRU40)	SRU60	AR3260(SRU80)	AR3260 (SRU2000)	AR3260 (SRU4000)
GRE																		
	GRE tunnel	Supporting MTU, GRE Checksum, tunnel status detection, GRE packet fragmentation and reassembly, interface name used as the source address of the tunnel interface	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Services on the GRE tunnel																	
		Unicast routing protocols: RIP, OSPF, IS-IS, and BGP	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Multicast routing protocol: PIM-DM/SM	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Redirecting packets to the GRE tunnel	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
IPSec VPN																		
	IKE	Supporting IKEv1/v2	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	IPSec																	
		IPSec tunnel	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		IPSec conversion protocols: AH, ESP, and AH+ESP protocols.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		Encapsulation modes: transport mode and tunnel mode.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		GRE over IPSec	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	NAT traversal		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	DSVPN		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
L2TP VPN																		
	LAC		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	LNS		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
SSLVPN			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
QoS																		
ACL		Basic IPv4 ACLs, extended IPv4 ACLs, and Ethernet frame header-based Layer 2 ACLs and name ACLs	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
QoS																		
	Priority		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Traffic policing	Supporting traffic rate limit on interfaces, sub-interfaces, Eth-Trunk interfaces, MFR interfaces, dialer interfaces, VE interfaces, and VT virtual interfaces, and supporting flow-based traffic policing	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Traffic shaping	Supporting traffic shaping on interfaces, sub-interfaces, Eth-Trunk interfaces, MFR interfaces, dialer interfaces, VE interfaces, and traffic queues	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Congestion avoidance	Supporting WRED based on DSCP or IP priorities and supporting tail drop	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Congestion management	Supporting SP scheduling, WRR scheduling, and SP+WRR scheduling on LAN-side interfaces, and PQ/CBWFQ scheduling as well as 3-Level HQoS on WAN-side interfaces	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	HQoS		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		3-Level scheduling and shaping for flows, services (sub-interfaces), and	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	FR QoS		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	IPv6 QoS	Supporting IPv6 packet priority mapping, packet re-marking, queue scheduling, traffic policing, traffic shaping, traffic statistics, and traffic mirroring	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	ATM QoS	Configuring CBR, VBR-rt, VBR-nrt, and UBR on the PVC	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
MQC	Traffic classifier, traffic behavior, and traffic		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
SAC	Smart Application Control	Supporting P2P, RTP, and enterprise applications	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Voice																		
Voice ports																		
	FXS ports	Supporting user-defined ringing mode, interface locking, and interface loopback. Supporting four access user types: DEL, ECPBX, LCPBX, and PAYPHONE	x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
	FXO ports																	
		P2P and P2MP working modes	x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
		Remote power supplies on a port	x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
		Loopback on BRA ports	x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
	ISDN S/T ports	Working mode, remote power supplies on the ports and alarm checking on the BRA ports	x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
	E1 interfaces		x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
Voice media																		
	RTP		x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
	DSP		x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
		Three-way conference, Multi-party conference	x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
		DSP mode: Full rate mode and G.711 mode	x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
	DSP Standard																	
		G.723.1, G.728, G.729 G.729a, G.729ab, G.726, G.722, G.711	x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
Voice signaling																		
	SIP protocol		x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
		Supporting SIP over TLS	x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
Diagnostics and Maintenance																		
	Signaling tracing and problems		x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
	Voice loading		x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
	VQSM		x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
	Remote packet capturing		x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
	TR069	Supporting TR104 node	x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
SIP AG																		
	POTS subscriber		x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
	BRA/PRA subscriber management		x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
	Fax		x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
	Modem		x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
	SIP	SIP over UDP/TCP/SCTP	x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
	Overload		x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
	BEST	Branch Exchange for Survivable Telephony	x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
	CAC bandwidth limit in static mode	Restricting incoming and outgoing calls when the bandwidth is insufficient	x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
PBX																		
	User access	Accessing the POTS terminal, SIP UE terminal, and BRA terminal	x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√
	Trunk interworking																	
		Accessing the PSTN network/traditional TDM PBX by using AT0 and PRA trunks	x	x	x	√	x	√	x	x	x	√	√	√	√	√	√	√

Sub-system	Item	Specification	AR1220	AR1220-DC	AR1220F	AR1220V	AR1220W	AR1220VW	AR1220L	AR2201-48FE	AR2202-48FE	AR2204	AR2220	AR2240(SRU40)	SRU60	AR3260(SRU80)	AR3260 (SRU200)	AR3260 (SRU400)
		Accessing the IMS network by using a SIP IP trunk (SIP PRA or SIP AT0)	X	X	X	√	X	√	X	X	X	√	√	√	√	√	√	√
		Connecting to other IP PBXs by using an SIP IP trunk (IP addresses cannot be obtained dynamically. And SIP IP trunk cannot be registered.)	X	X	X	√	X	√	X	X	X	√	√	√	√	√	√	√
		R2 trunk	X	X	X	√	X	√	X	X	X	√	√	√	√	√	√	√
		H323 Gateway	X	X	X	√	X	√	X	X	X	√	√	√	√	√	√	√
		Accessing the ISDN network using the ISDN BRA trunk	X	X	X	√	X	√	X	X	X	√	√	√	√	√	√	√
	Service feature																	
		Fax/modem service in TDM/VOIP mode	X	X	X	√	X	√	X	X	X	√	√	√	√	√	√	√
		Connecting to the GSMBOX gateway (ZED-3 GSMBOX gateway) by using a SIP IP trunk	X	X	X	√	X	√	X	X	X	√	√	√	√	√	√	√
		Double communication (DC) service and three-party service	X	X	X	√	X	√	X	X	X	√	√	√	√	√	√	√
		Multi-subscriber-number (MSN) service supporting both SIP UE and POTS subscribers	X	X	X	√	X	√	X	X	X	√	√	√	√	√	√	√
		Media proxy for NAT traversal	X	X	X	√	X	√	X	X	X	√	√	√	√	√	√	√
		Multi-party conferencing	X	X	X	√	X	√	X	X	X	√	√	√	√	√	√	√
		Blacklist and Whitelist	X	X	X	√	X	√	X	X	X	√	√	√	√	√	√	√
		DISA	X	X	X	√	X	√	X	X	X	√	√	√	√	√	√	√
		Restricting calls by setting the bandwidth in static mode	X	X	X	√	X	√	X	X	X	√	√	√	√	√	√	√
	Operation and maintenance	PBX functions can be controlled by licenses.	X	X	X	√	X	√	X	X	X	√	√	√	√	√	√	√
	Reliability	Associating the SIP server status with the VRRP status, and associating the SIP IP trunk status with the VRRP status	X	X	X	√	X	√	X	X	X	√	√	√	√	√	√	√
Management and maintenance																		
Port mirroring		Mirror packets to Ethernet interfaces (LAN-side interfaces and WAN-side interfaces), including: Ethernet interfaces, serial ports, ATM interfaces, E1/T1 interfaces, ISDN interfaces, 3G interfaces, WLAN interfaces, and Eth-Trunk interfaces. Supporting port mirroring on both inbound and outbound interfaces. Supporting port mirroring for traffic sent to the CPU.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Web Mangement			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
System management		SYSLOG log information export	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	TFTP		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Information center		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Command line		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Time management		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	SSH		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	FTP		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	TELNET		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	User management		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Multilingual resource file management		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	File system		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Configuration file		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Configuration management		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Terminal management		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Supporting console interfaces and synchronous/asynchronous serial interfaces	Supporting console interfaces and synchronous/asynchronous serial interfaces	√(Console serial interfaces include RJ45 and miniUSB interfaces cannot be used together)	√(Console serial interfaces include RJ45 and miniUSB interfaces cannot be used together)	√(Console serial interfaces include RJ45 and miniUSB interfaces cannot be used together)	√(Console serial interfaces include RJ45 and miniUSB interfaces cannot be used together)	√(Console serial interfaces include RJ45 and miniUSB interfaces cannot be used together)	√(Console serial interfaces include RJ45 and miniUSB interfaces cannot be used together)	√(Console serial interfaces include RJ45 and miniUSB interfaces cannot be used together)	√(Console serial interfaces include RJ45 and miniUSB interfaces cannot be used together)	√(Console serial interfaces include RJ45 and miniUSB interfaces cannot be used together)	√(Console serial interfaces include RJ45 and miniUSB interfaces cannot be used together)	√(Console serial interfaces include RJ45 and miniUSB interfaces cannot be used together)	√(Console serial interfaces include RJ45 and miniUSB interfaces cannot be used together)	√(Console serial interfaces include RJ45 and miniUSB interfaces cannot be used together)	√(console串口的两种接口（RJ45，miniUSB）同时只能有一个在用)	√(console串口的两种接口（RJ45，miniUSB）同时只能有一个在用)
Upgrade management			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Device management			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
GTL			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Diagnostics and Debugging			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
SNMP		SNMPv1/v2c/v3, supporting MIB files defined by SMIv1 and SMIv2	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
PoE		Supporting 802.3af and 802.3at. The interface maximum power is 30 W.	X	X	X	√	√	√	X	√	√	√	X	X	X	X	X	X
NTP		This module uses V3 that is compatible with V1 and V2.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
RMON			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
RMON2			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
CWMP			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Deployment		Downloading the configuration file, version file, and patch file from the TFTP/FTP server automatically Supporting USB-based deployment	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
External interfaces																		
TR069 mode		Supporting TR111	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
WLAN																		
WLAN QoS																		
	WMM function		X	X	X	X	√	√	X	X	X	X	X	X	X	X	X	X
	Priority mapping		X	X	X	X	√	√	X	X	X	X	X	X	X	X	X	X
	Traffic control		X	X	X	X	√	√	X	X	X	X	X	X	X	X	X	X
WLAN																		
	WEP security policy		X	X	X	X	√	√	X	X	X	X	X	X	X	X	X	X
	WPA security policy		X	X	X	X	√	√	X	X	X	X	X	X	X	X	X	X
	WAPI security policy		X	X	X	X	√	√	X	X	X	X	X	X	X	X	X	X
	Key management		X	X	X	X	√	√	X	X	X	X	X	X	X	X	X	X
WLAN radio management																		
	Wireless protocol		X	X	X	X	√	√	X	X	X	X	X	X	X	X	X	X
	Rate, channel, and bandwidth		X	X	X	X	√	√	X	X	X	X	X	X	X	X	X	X
	MAC layer parameters		X	X	X	X	√	√	X	X	X	X	X	X	X	X	X	X
	Radio interfaces		X	X	X	X	√	√	X	X	X	X	X	X	X	X	X	X
	802.11n parameters		X	X	X	X	√	√	X	X	X	X	X	X	X	X	X	X
AP																		
	AP management		X	X	X	X	√	√	X	X	X	X	X	X	X	X	X	X
	Diagnosis and maintenance		X	X	X	X	√	√	X	X	X	X	X	X	X	X	X	X
	VAP management		X	X	X	X	√	√	X	X	X	X	X	X	X	X	X	X

Sub-system	Item	Specification	AR1220	AR1220-DC	AR1220F	AR1220V	AR1220W	AR1220VW	AR1220L	AR2201-48FE	AR2202-48FE	AR2204	AR2220	AR2240(SRU40)	SRU60	AR3260(SRU80)	AR3260 (SRU200)	AR3260 (SRU400)
WLAN STA management																		
	STA access		x	x	x	x	√	√	x	x	x	x	x	x	x	x	x	x
	STA association		x	x	x	x	√	√	x	x	x	x	x	x	x	x	x	x
	STA information		x	x	x	x	√	√	x	x	x	x	x	x	x	x	x	x
WLAN anti-attack																		
	Blacklist and whitelist		x	x	x	x	√	√	x	x	x	x	x	x	x	x	x	x
	Access control		x	x	x	x	√	√	x	x	x	x	x	x	x	x	x	x
	Anti-attack		x	x	x	x	√	√	x	x	x	x	x	x	x	x	x	x
WLAN services																		
	WLAN services		x	x	x	x	√	√	x	x	x	x	x	x	x	x	x	x
	TR-069-based WLAN service		x	x	x	x	√	√	x	x	x	x	x	x	x	x	x	x
WLAN (AC)																		
AP management																		
	Networking capability	Supporting the Layer 2/Layer 3 network and IPv4 network between APs and the AC	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	AC discovery	Discovering ACs using DHCP Option43, DNS, or CAPWAP	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	AP access	Configuring the AP access control mode (automatic access based on the MAC address or serial number)	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	AP management	Querying AP software version update, configuration downloading, and status maintenance	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
CAPWAP																		
	CAWAP tunnel	Supporting the CAPWAP control tunnel	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Networking capability	Supporting Layer2/Layer 3 network data direct forwarding	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
STA management																		
	STA access	Supporting 802.1x, Dot1x, Portal, EAP-PAP/EAP-MD5, EAP-PEAP/EAP-TLS, and MAC authentication	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	STA association	Supporting STA association and reassociation, and intra-VLAN or inter-VLAN roaming	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	AAA	Supporting AAA, VLAN and Layer 3 ACL delivery by the RADIUS server, and STA grouping and ACL authorization	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
WLAN radio management																		
	Radio management	Supporting 802.11 b/g/n	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	802.11n	Setting 802.11n parameters	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
WLAN security																		
	WEP security policy		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	WPA security policy		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	WAPI security policy		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Key management		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
WLAN attack defense																		
	Blacklist and whitelist	Supporting blacklist and whitelist, and viewing WLAN security feature logs and statistics	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Communication control	STA communication control on a virtual AP	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
WLAN QoS																		
	WMM function	Supporting 802.11e	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Priority mapping		√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	CAR and rate limit	Supporting rate limit on upstream traffic of the VAP/SAT-based air interface, AP traffic control, and radio-based multi-STA traffic balancing	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
WLAN service																		
	Service management	Supporting configurations and management of the WLAN service sets and VAP, automatic service delivery and management, and the VDS bridge function	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Reliability	Supporting 1+1 cold backup, 1+1 load balancing, and N+1/N+N cold backup between ACs	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√