

Enterprise Routing Portfolio for Borderless Networks Delivering Service Consistency Across Branch and WAN Infrastructure

Cisco Integrat Transforming the Next –Any Service, Any Bra	t-Generation Branc								nd Services						ASR 1000 Se gation Service ng the Enterprise WA	0	t-Demand Services	<image/>	<image/>
Feature Form Factor	Desktop	Desktop	890 Desktop	1921 Desktop (1 RU)	1941/1941W Desktop (2 RU)	2901 1 RU	2911 2 RU	2921 2 RU	2951 2 RU	3925 3 RU	3945 3 RU	3925 E 3 RU	3945E 3 RU	Feature Form Factor	1001 1 RU	2 RU	1004 4 RU	1006 6 RU	1013 13 RU
Integrated WAN Ports Recommend WAN Access Speed (with services)	10/100 Mbps FE s) 8 Mbps	10/100 Mbps FE 12 Mbps	1 GE, 1 FE 15 Mbps	2 GE 15 Mbps	2 GE 25 Mbps	2 GE 25 Mbps	3 GE 35 Mbps	3 GE (1 SFP) 50 Mbps	3 GE (1 SFP) 75 Mbps	3 GE (2 SFP) 100 Mbps	3 GE (2 SFP) 150 Mbps	4 GE (2 SFP) 250 Mbps	4 GE (2 SFP) 350 Mbps	Chassis	Scalable to 5 Gbps	Scalable to 10 Gbps	Scalable to 40 Gbps	Scalable to 40 Gbps	Scalable to 40+ Gbps Designed for 360 Gbps
Modular Services Performance Engine (Field Upgradable Motherboard) Interface Slots (EHWIC)	No 0	No 0	No 0	No 2	No 2 No	4	No 4	No 4	No 4	Yes -SPE100 4	Yes -SPE150 4 ((1) + + + + + + + + + + + + + + + + + + +	Yes -SPE200	Yes SPE-250 3	Integrated WAN Ports Embedded Services Processor (ESP)	4 GE ports Integrated 2.5-Gbps ESP Upgradable via a software activated license to 5 Gbps	4 GE ports ASR1000-ESP5 (single) or ASR1000- ESP10 (single) or ASR1000-ESP10-N (single); 5 Gbps or 10 Gbps	to 10 Gbps or ASR1000-ESP20 (sin-	Scalable to 10 Gbps or ASR1000-	Scalable to 40 Gbps
Service Module Support ISM Slots	0 0	0 N/A	0 N/A	0 N/A	N/A 1**	N/A 1	1 Single	1 Single or 1 Double	2 Single or 1 Double	(2 Single) or (1 Single + 1 Double)	(Up to 4 Single) or (Up to 2 Single + 1 Double)	(2 Single) or (1 Single + 1 Double) 0	(Up to 4 Single) or (Up to 2 Single + 1 Double)				gle): Scalable to 20 Gbps or ASR1000 ESP40 (single or dual): Scalable to 40 Gbps (as of IOS XE 3.2S)	 ESP20 (single or dual): Scalable to 20 Gbps or ASR1000-ESP40 (single or dual): Scalable to 40 Gbps 	
PVDM Slots USB Ports Type A	0	1 (SRST models only) 1 (USB1.1)	0	0	0	2	2	3	3	4	4	3	3	Route Processor (RP)	Integrated Route Processor with 4 GB memory	Integrated Route Processor 1 with 4 GB memory	ASR1000-RP1 (single) 4 GB memory ASR1000-RP2 (single)	ASR1000-RP1 (single or dual) 4 GB memory ASR1000-RP2 (single or dual) 8 GB or 16 GB memory	
Default/Max Flash	128 MB/128 MB	128 MB/128 MB or 256 MB/256 MB (SRST models only	256 MB/256 MB	256 MB/256 MB	256 MB/8GB	SPA Interface Processor	Integrated	Integrated	8 GB or 16 GB memory 2	3	6								
Default/Max DRAM	256 MB/256 MB	256 MB/768 MB or 512 MB/76 MB (SRST models only)	8 512 MB/768 MB	512 MB/512 MB	512 MB/2.5 GB	512 MB/2.5 GB	512 MB/2.5 GB	512 MB/2.5 GB	512 MB/4 GB***	1 GB/4 GB***	1 GB/4 GB***	1 GB/2 GB***	1 GB/2 GB***	(SIP) Card Slots Shared Port Adapter	1	3	8	12	24
Redundant Power Supply Module Online Insertion and Removal (OIR)	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	Yes, External RPS	Yes, External RPS	Yes, External RPS	Yes, Internal RPS Yes, SM OIR	(SPA) Slots Interface Support	FE, GE, 10GE, OC3 (POS/ATM), OC1		1 E, GE, 10GE, 000 (100/, 111), 0012	FE, GE, 10GE, OC3 (POS/ATM), OC12				
Advanced Security Stateful Firewall	Enabled via Security Licer	nse for Universal IOS Image. IPS	S, SSL, VPN and Content Filter	ing needs additional subscripti	ion licenses	Ves	Vas	Ves	Ves	Ves	Ves	Ves	Yes		(POS/ATM), OC48 (POS), OC-192 (POS), channelized STM-1/OC3, (channelized+non-channelized)	(POS/ATM), OC48 (POS), OC-192 (POS), channelized STM-1/OC3, (channelized+non-channelized) T3/DS0, T1/E1, Serial	(POS/ATM), OC48 (POS), OC-192 (POS), channelized STM-1/OC3, (channelized+non-channelized) T3/DS0, T1/E1, Serial	(POS/ATM), OC48 (POS), OC-192 (POS), channelized STM-1/OC3, (channelized+non-channelized)	(POS/ATM), OC48 (POS), OC-192 (POS), channelized STM-1/OC3, (channelized+non-channelized)
Onboard Hardware VPN Acceleration (DES, 3DES, AES)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Forwarding Rate	T3/DS0, T1/E1, Serial Up to 4 or 7.5 Mpps Up to 2.5 or 5 Gbps	Up to 7.5 or 15 Mpps Up to 5 or 10 Gbps	Up to 15 or 23 Mpps Up to 10 or 20 or	T3/DS0, T1/E1, Serial Up to 15 or 23 Mpps Up to 10 or 20 or 40	T3/DS0, T1/E1, Serial Up to 23 Mpps Up to 40 Gbps
VPN Services	Easy VPN Remote, Enhanced Easy VPN Remote	Easy VPN Remote, Enhanced Easy VPN Remote, Dynamic	Easy VPN Remote, Enhanced Easy VPN Remote, Dynamic	Easy VPN Remote server, Enhanced Easy VPN, Dynamic	Easy VPN Remote server, Enhanced Easy VPN, Dynamic	Easy VPN Remote server, Enhanced Easy VPN, Dynamic	Easy VPN Remote/server, Enhanced Easy VPN, Dynamic		depending on whether default performance of 2.5 Gbps is utilized or upgraded via license to 5 Gbps	depending on ESP	40 Gbps-depending on ESP	Gbps-depending on ESP							
		Multipoint VPN (DMVPN), Group Encrypted Transport VPN (GET VPN)	Multipoint VPN (DMVPN), Group Encrypted Transport VPN (GET VPN)	Multipoint VPN (DMVPN), Group Encrypted Transport VPN (GET VPN), V3PN, MPLS VPN	Multipoint VPN (DMVPN), Group Encrypted Transport VPN (GET VPN), V3PN, MPLS VPN	Multipoint VPN (DMVPN), Group Encrypted Transport VPN (GET VPN), V3PN, MPLS VPN	Multipoint VPN (DMVPN), Group Encrypted Transport VPN (GET VPN), V3PN, MPLS VPN	Multipoint VPN (DMVPN), Group Encrypted Transport VPN (GET VPN), V3PN, MPLS VPN	Multipoint VPN (DMVPN), Group Encrypted Transport VPN (GET VPN), V3PN, MPLS VPN	Multipoint VPN (DMVPN), Group Encrypted Transport VPN (GET VPN), V3PN, MPLS VPN	Multipoint VPN (DMVPN), Group Encrypted Transport VPN (GET VPN), V3PN, MPLS VPN	Multipoint VPN (DMVPN), Group Encrypted Transport VPN (GET VPN), V3PN, MPLS VPN	Multipoint VPN (DMVPN), Group Encrypted Transport VPN (GET VPN), V3PN, MPLS VPN	Minimum Cisco IOS XE Release	IOS XE 3.2.0S: ASR1001, ASR1001- 4XT3, ASR1001-2XOC3POS	IOS XE 2.1.0	IOS XE 2.1.0	IOS XE 2.1.0	IOS XE 3.1.0S
SSL VPN	N/A	*Requires Advanced IP license Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		IOS XE 3.3.0S: ASR1001-8CHT1E1, ASR1001-4X1GE, ASR1001-HDD				
Intrusion Prevention and FPM	N/A	Yes *Requires Advanced IP license	Yes *Requires Advanced IP license	Yes	System DRAM Memory	4 GB (default); 8 GB (max.) – for integrated Route Processor	4 GB (default); 4 GB (max.) - for integrated Route Processor 1	4 GB (default); 4 GB (max.) - for ASR1000-RP1 8 CB (default); 16 CB (max.)	4 GB (default); 4 GB (max.) - for ASR1000-RP1 8 CB (default): 16 CB (max.)	8 GB (default); 16 GB (max.) - for ASR1000-RP2									
Content Filtering Network Foundation Protection	ACL, QoS (limited support) Role-based CLI Access,	Yes ACL, Control Plane Policing (CoPP), QoS, Role-based CLI	Yes ACL, Control Plane Policing (CoPP), QoS, Role-based CLI	Yes ACL, Control Plane Policing (CoPP), QoS, Role-based CLI	Yes ACL, Control Plane Policing (CoPP), QoS, Role-based CLI	Yes ACL, Control Plane Policing (CoPP), QoS, Role-based CLI	Yes ACL, Control Plane Policing (CoPP), QoS, Role-based CLI	Yes ACL, Control Plane Policing (CoPP), QoS, Role-based CLI	Yes ACL, Control Plane Policing (CoPP), QoS, Role-based CLI	Yes ACL, Control Plane Policing (CoPP), QoS, Role-based CLI	Yes ACL, Control Plane Policing (CoPP), QoS, Role-based CLI	Yes ACL, Control Plane Policing (CoPP), QoS, Role-based CLI	Yes ACL, Control Plane Policing (CoPP), QoS, Role-based CLI	Redundant Power Supply	Yes, Dual AC or DC by default	Yes, Dual AC or DC by default	8 GB (default); 16 GB (max.) – for ASR1000-RP2 Yes, Dual AC or DC by default	8 GB (default); 16 GB (max.) – for ASR1000-RP2 Yes, Dual AC or DC by default	Yes, Dual AC or DC by default
	Source-based RTBH, uRPF, SSHv2	Access, Source-based RTBH, uRPF, SSHv2 *Some features require Advanced IP license	Access, Source-based RTBH, uRPF, SSHv2 *Some features require Advanced IP license	Access, Source-based RTBH, uRPF, SSHv2	Access, Source-based RTBH, uRPF, SSHv2	Access, Source-based RTBH, uRPF, SSHv2	Access, Source-based RTBH, uRPF, SSHv2	Access, Source-based RTBH, uRPF, SSHv2	Access, Source-based RTBH, uRPF, SSHv2	Access, Source-based RTBH, uRPF, SSHv2	Access, Source-based RTBH, uRPF, SSHv2	Access, Source-based RTBH, uRPF, SSHv2	Access, Source-based RTBH, uRPF, SSHv2	11.5		et Inspection (FPI), IPsec and Firewal			
ISR Web Security Unified Communication	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Zone-based Firewall and NAT services	Yes, up to 5 Gbps. VRF aware FW an VRF aware NAT	d Yes, up to 10 Gbps. VRF aware FW an VRF aware NAT	Yes, up to 40 Gbps. VRF aware FW an VRF aware NAT	d Yes, up to 40 Gbps. VRF aware FW and VRF aware NAT	d Yes, up to 40 Gbps. VRF aware FW and VRF aware NAT
Local Conferencing	N/A	Yes	N/A	N/A	N/A	Yes, use PVDM3 or PVDM2	VPN services	IPsec, GRE + IPsec, VTI, Easy VPN, Enhanced Easy VPN, Dynamic Multipoint VPN (DMVPN), 2547 over	IPsec, GRE + IPsec, VTI, Easy VPN, Enhanced Easy VPN, Dynamic Multipoint VPN (DMVPN), 2547 over	IPsec, GRE + IPsec, VTI, Easy VPN, Enhanced Easy VPN, Dynamic Multipoint VPN (DMVPN), 2547 over	IPsec, GRE + IPsec, VTI, Easy VPN, Enhanced Easy VPN, Dynamic Multipoint VPN (DMVPN), 2547 over	IPsec, GRE + IPsec, VTI, Easy VPN, Enhanced Easy VPN, Dynamic Multipoint VPN (DMVPN), 2547 over DMVPN,							
Digital Signal Processor Support Cisco Unified Survivable Remote Site	N/A N/A	Yes, on SRST models Up to 4 on SRST models	N/A N/A	N/A N/A	N/A N/A	PVDM3 and PVDM2 Up to 35	PVDM3 and PVDM2 Up to 50	PVDM3 and PVDM2 Up to 100	PVDM3 and PVDM2 Up to 250	PVDM3 and PVDM2 Up to 730	PVDM3 and PVDM2 Up to 1200	PVDM3 and PVDM2 Up to 1350	PVDM3 and PVDM2 Up to 1500		DMVPN, Group Encrypted Transport VPN (GET VPN), IPv6 IPsec SVTI	DMVPN, Group Encrypted Transport VPN (GET VPN), IPv6 IPsec SVTI	DMVPN, Group Encrypted Transport VPN (GET VPN), IPv6 IPsec SVTI	DMVPN, Group Encrypted Transport VPN (GET VPN), IPv6 IPsec SVTI	Group Encrypted Transport VPN (GET VPN), IPv6 IPsec SVTI
Telephony Support Cisco Unified Communications Manager Express Support	N/A	N/A	N/A	N/A	N/A	Up to 35	Up to 50	Up to 100	Up to 150	Up to 250	Up to 350	Up to 400	Up to 450	Onboard Hardware VPN Encryption (DES, 3DES, AES)	Yes, up to 1.8 Gbps	Yes, up to 4 Gbps	Yes, up to 11 Gbps	Yes, up to 11 Gbps	Yes, up to 11 Gbps
Cisco Unified Messaging Gateway (NME, NME-EC, SM or ISM)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1000 SRSV, VPIM or E-SRST nodes (with SRE-900)	Maximum IPsec Tunnels		4000	4000	4000	4000				
Cisco Unity Express (NM, SM or ISM)	N/A	N/A	N/A	N/A	N/A	10 ports; 100 mailboxes (with SRE-300)	10 ports; 100 mailboxes (with SRE-300)	10 ports; 100 mailboxes (with SRE-300)	32 ports; 500 mailboxes (with SRE-700)	Netflow Event Logging– For Firewall and NAT services	Yes	Yes	Yes	Yes	Yes				
Cisco Unified Survivable Remote Site Voicemail (NME, NME-EC, SM or ISM)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	64 ports; 1510 mailboxes (with SRE-900)	Network Foundation Protection	ACL, Control Plane Policing (CoPP), QoS, Role-based CLI Access,	ACL, Control Plane Policing (CoPP), QoS, Role-based CLI Access,	ACL, Control Plane Policing (CoPP), QoS, Role-based CLI Access,	ACL, Control Plane Policing (CoPP), QoS, Role-based CLI Access,	ACL, Control Plane Policing (CoPP), QoS, Role-based CLI Access,				
Cisco Unified Border Element (SIP/H.323 Sessions) Cisco Unified SIP Proxy	N/A N/A	Up to 4	N/A	N/A N/A	N/A N/A	100 N/A	200 10 CPS (with SRE-700 and	400 10 CPS (with SRE-700 and	600 100 CPS (with SRE-700	800 100 CPS (with SRE-700	950 200 CPS (with SRE-900)	2100 100 CPS (with SRE-700 and	2500 200 CPS (with SRE-900)	Unified Communicati	Source-based RTBH, uRPF, SSHv2	Source-based RTBH, uRPF, SSHv2	Source-based RTBH, uRPF, SSHv2	Source-based RTBH, uRPF, SSHv2	Source-based RTBH, uRPF, SSHv2
Digital Voice and Video (T1/E1 channels)	N/A	N/A	N/A	N/A	N/A	Up to 100	SRE-900)	SRE-900)	and SRE-900)	and SRE-900)	Up to 900	SRE-900)	Up to 840	Cisco Unified Border Element (Enterprise Edition) – SIP Trunking	5000	1700	16000+	16000+	N/A
Analog/BRI Voice	N/A	FXS 4, FXO 1, BRI 1 on SRST models	N/A	N/A	N/A	FXS 16, FXO 16, BRI 8	FXS 40, FXO 28, BRI 16	FXS 40, FXO 28, BRI 16	FXS 64, FXO 40, BRI 24	FXS 64, FXO 40, BRI 24	FXS 112, FXO 64, BRI 40	FXS 60, FXO 36, BRI 22	FXS 108, FXO 60, BRI 38	(Managed) Cisco Unified Border	5000	1700	16000+	16000+	
Routing and Multicast	RIP v1/v2	RIP v1/v2, EIGRP, OSPF, BGP,	RIP v1/v2, EIGRP, OSPF, BGP,	RIP v1/v2, EIGRP, OSPF, BGP,	RIP v1/v2, EIGRP, OSPF, BGP,	RIP v1/v2, EIGRP, OSPF, BGP,	RIP v1/v2, EIGRP, OSPF, BGP,	RIP v1/v2, EIGRP, OSPF, BGP,	RIP v1/v2, EIGRP, OSPF, BGP,	RIP v1/v2, EIGRP, OSPF, BGP,	RIP v1/v2, EIGRP, OSPF, BGP,	RIP v1/v2, EIGRP, OSPF, BGP,	RIP v1/v2, EIGRP, OSPF, BGP,	Element (SP Edition) – SIP Trunking (SP hosted)					
		PBR *Some features require Advanced IP license	PBR *Some features require Advanced IP license		PBR, PfR	cRTP WebEx Node	Yes	Yes	Yes	Yes	Yes								
Multicast Routing Protocols	N/A	PIM-SM, mroute (static route), and MLD *Requires Advanced IP license	PIM-SM, mroute (static route), and MLD *Requires Advanced IP license	- , (, ,	PIM-SM, mroute (static route), and MLD	PIM-SM, mroute (static route), and MLD	PIM-SM, mroute (static route), and MLD	PIM-SM, mroute (static route), and MLD	PIM-SM, mroute (static route), and MLD	PIM-SM, mroute (static route), and MLD	PIM-SM, mroute (static route), and MLD	PIM-SM, mroute (static route), and MLD	PIM-SM, mroute (static route), and MLD	B2B TelePresence Enablement	Yes	Yes	Yes	Yes	Yes
IPv6 Routing Protocols	N/A		EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license		EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR	Routing and Multicas													
Wireless LAN	Va	Vac												IPv4 Routing Protocols Multicast Routing	RIP v1/v2, EIGRP, OSPF, BGP, PBR PIM-SM, mroute (static route),	RIP v1/v2, EIGRP, OSPF, BGP, PBR PIM-SM, mroute (static route),	RIP v1/v2, EIGRP, OSPF, BGP, PBR PIM-SM, mroute (static route),	RIP v1/v2, EIGRP, OSPF, BGP, PBR PIM-SM, mroute (static route),	RIP v1/v2, EIGRP, OSPF, BGP, PBR PIM-SM, mroute (static route),
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point	N/A	N/A	V/A Yes	N/A N/A	N/A Yes (1941W only)	N/A N/A	Protocols IPv6 Routing Protocols	and MLD EIGRP, RIP, OSPFv3, IS-IS,	and MLD EIGRP, RIP, OSPFv3, IS-IS,	and MLD EIGRP, RIP, OSPFv3, IS-IS,	and MLD EIGRP, RIP, OSPFv3, IS-IS,	and MLD EIGRP, RIP, OSPFv3, IS-IS,							
Unified and Autonomous Mode RP-TNC Connectors for Field-replaceable	Autonomous N/A	Both Yes (select models only)	Both Yes	N/A N/A	Both (1941W only) Yes (1941W only)	N/A N/A	Netflow v5/v9	BGP and PBR Yes	BGP and PBR Yes	BGP and PBR Yes	BGP and PBR Yes	BGP and PBR Yes							
Optional High-gain Antennas Diversity (Dual Antennas)	Yes	Yes	Yes	N/A	Yes (1941W only)	N/A	High Availability	No	No	No	Vos	Vos							
Wireless LAN Controller Module	N/A	N/A	N/A	N/A	Yes Up to 10 802.11 a/b/g/n AP controllers (1941 only)	Yes Up to 10 802.11 a/b/g/n AP controllers	Up to 50 802.11 a/b/g/n AP controllers	Upgrade (ISSU) Software Redundancy	Yes	Yes	Yes	N/A (HW redundancy)	N/A (HW redundancy)						
Wireless WAN 3G Cellular	N/A	Yes	N/A	EHWIC	(dual IOS on same Route Processor)	Ves	Ves	Yes	Yes	Yes									
RP-TNC Connectors for Field-replaceable Optional High-gain Antennas	N/A N/A	Yes	N/A	Yes	NSF/SSO Quality of Service	153	100												
Diversity (Dual Antennas) Outdoor Antennas	N/A N/A	Yes Yes	N/A N/A	Yes Yes	Yes	Yes	Yes	Yes Yes	Yes	Yes Yes	Yes Yes	Yes	Yes Yes	Hierarchical Quality-of-Service	3-level hierarchical QoS (e.g. on GRE tunnels), 256 Class-maps per policy, 4000 unique policy maps,	3-level hierarchical QoS (e.g. on GRE tunnels), 256 Class-maps per policy, 4000 unique policy maps,	3-level hierarchical QoS (e.g. on GRE tunnels), 256 Class-maps per policy, 4000 unique policy maps,	3-level hierarchical QoS (e.g. on GRE tunnels), 256 Class-maps per policy, 4000 unique policy maps,	3-level hierarchical QoS (e.g. on GRE tunnels), 256 Class-maps per policy, 4000 unique policy maps,
Integrated Switching															support for 128,000 queues, allows all queues to have a minimum, maximum, and excess bandwidth	support for 128,000 queues, allows all queues to have a minimum, maximum, and excess bandwidth	support for 128,000 queues, allows all queues to have a minimum, maximum, and excess bandwidth	support for 128,000 queues, allows all queues to have a minimum, maximum, and excess bandwidth	support for 128,000 queues, allows all queues to have a minimum, maximum, and excess bandwidth
Maximum Ethernet Ports Maximum Ethernet LAN Ports with POE	4 0	2	8	9	12	16	40 40	66 64	66 64	90 88	114	88	110 112	Application Services	with priority propagation	with priority propagation	with priority propagation	with priority propagation	with priority propagation
PoE Support (Wattage) No PoE Boost PoE Support (Wattage) with PoE Boost	N/A N/A	N/A N/A	N/A N/A	Yes, 80W No	Yes, 80W No	Yes, 130W No	Yes, 200W Yes, 750W	Yes, 280W Yes, 750W	Yes, 370W Yes, 750W	Yes, 520W Yes, 1040	Yes, 520W Yes, 1040	Yes, 520W Yes, 1040	Yes, 520W Yes, 1040	Application Acceleration/ WAN Optimization	Yes, WCCPv2 to redirect traffic to WAAS Appliance, VRF-aware WCCP	Yes, WCCPv2 to redirect traffic to WAAS Appliance, VRF-aware WCCP	Yes, WCCPv2 to redirect traffic to WAAS Appliance, VRF-aware WCCP	Yes, WCCPv2 to redirect traffic to WAAS Appliance, VRF-aware WCCP	Yes, WCCPv2 to redirect traffic to WAAS Appliance, VRF-aware WCCP
EtherSwitch Service Module type (Width)	N/A	N/A	N/A	N/A	N/A	N/A	1 Single	1 Single or 1 Double	2 Single or 1 Double	(2 Single) or (1 Single + 1 Double)	(Up to 4 Single) or (Up to 2 Single + 1 Double)	(2 Single) or (1 Single + 1 Double)	(Up to 4 Single) or (Up to 2 Single + 1 Double)	Application Visibility and Control (AVC)	Yes, 900+ protocols	Yes, 900+ protocols	Yes, 900+ protocols	Yes, 900+ protocols	Yes, 900+ protocols
Application/WAN Optimization Route Optimization	N/A	N/A	N/A	PfR	Flexible Packet Matching (FPM)	Yes	Yes	Yes	Yes	Yes									
Network Contention Control Application Visibility	N/A N/A	N/A NBAR	N/A NBAR	QoS, HQoS NBAR															
Application/WAN Optimization	N/A N/A	WAAS Express	WAAS Express	WAAS Express	WAAS Express	WAAS Express	WAAS Express, WAAS on SRE		WAAS Express, WAAS on SRE	WAAS Express, WAAS on SRE	WAAS Express, WAAS on SRE		WAAS on SRE						
Application Services On-demand Application and Services Platform	N/A	N/A	N/A	N/A	SRE Module			rmation on the			outers,								
Server Virtualization Platform Network Monitoring and Analysis	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	UCS Express NAM Module	UCS Express NAM Module	UCS Express NAM Module	UCS Express NAM Module	UCS Express NAM Module	UCS Express NAM Module	UCS Express NAM Module		plea	se visit: www	cisco.com/go	o/asr1000.	
Third-party Applications																			
IP Address Management Network Performance Analysis	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	Infoblox, BlueCat NetScout	Infoblox, BlueCat NetScout	Infoblox, BlueCat NetScout	Infoblox, BlueCat NetScout	Infoblox, BlueCat NetScout	Infoblox, BlueCat NetScout	Infoblox, BlueCat NetScout						
Voice Policy Fax over IP	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	SecureLogix Sagemcom, OpenText	Cisco A	SR 1000 Serie	es Routers									
Security and Compliance Localized Device Management	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	LogLogic Uplogix												
Paging over IP Certifications	N/A	N/A	N/A	N/A	N/A	N/A	Singlewire												
USGv6 Profile 1.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes						

Cisco ISR G2 Routers





Cisco 3900 Series 3925, 3925E, 3945, 3945E



* Higher densities achieved through Enhanced EtherSwitch SMs









For more information on the Cisco ISR G2 routers, please visit: www.cisco.com/go/isrg2.

** ISM slot is not available for use on 1941W ***2 GB available for IOS, use above 2GB for WAAS Express

Cisco ASR 1001 Router

Cisco ASR 1002 Router

Cisco ASR 1004 Router





Cisco ASR 1006 Router