

Enterprise Routing Portfolio for Borderless Networks

Delivering Service Consistency Across Branch and WAN Infrastructure

Cisco Integrated Services Routers Generation 2

Transforming the Next-Generation Branch-Office Experience -Any Service, Any Branch, Anywhere















Feature	860	880	890	1921	1941/1941W	2901	2911	2921	2951	3925	3945	3925 E	3945E	Feature	1001
orm Factor Integrated WAN Ports	Desktop 10/100 Mbps FE	Desktop 10/100 Mbps FE	Desktop 1 GE, 1 FE	Desktop (1 RU) 2 GE	Desktop (2 RU) 2 GE	1 RU 2 GE	2 RU 3 GE	2 RU 3 GE (1 SFP)	2 RU 3 GE (1 SFP)	3 RU 3 GE (2 SFP)	3 RU 3 GE (2 SFP)	3 RU 4 GE (2 SFP)	3 RU 4 GE (2 SFP)	Form Factor	1 RU
ecommend WAN Access Speed (with services)	8 Mbps	12 Mbps	15 Mbps	15 Mbps	25 Mbps	25 Mbps	35 Mbps	50 Mbps	75 Mbps	100 Mbps	150 Mbps	250 Mbps	350 Mbps	Chassis	Scalable to
Modular Services Performance Engine (Field Upgradable Motherboard)	No	No	No	No	No	No	No	No	No	Yes -SPE100	Yes -SPE150	Yes -SPE200	Yes SPE-250	Integrated WAN Ports	4 GE ports
nterface Slots (EHWIC)	0	0	0	2	2	4	4	4	4	4	4	3	3	Embedded Services Processor (ESP)	Integrated Upgradabl
Service Module Support	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)		activated I
ISM Slots	0	0	0	0	1**	1	1	1	1	1	1	0	0		
PVDM Slots	0	1 (SRST models only)	0	0	0	2	2	3	3	4	4	3	3	Route Processor (RP)	Integrated with 4 GB
JSB Ports Type A	0	1 (USB1.1)	2	1	2	2	2	2	2	2	2	2	2		
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	256 MB/8GB	256 MB/8GB	256 MB/8GB	256 MB/8GB	256 MB/8GB	256 MB/8GB	256 MB/8GB	256 MB/8GB	SPA Interface Processor (SIP) Card Slots	Integrated
Default/Max DRAM	256 MB/256 MB	256 MB/768 MB or 512 MB/768 MB (SRST models only)	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***	Shared Port Adapter	1
Redundant Power Supply	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, Internal RPS	Yes, Internal RPS	Yes, Internal RPS	(SPA) Slots	
Module Online Insertion and Removal (OIR)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes, SM OIR	Yes, SM OIR	Yes, SM OIR	Yes, SM OIR	Interface Support	FE, GE, 10 (POS/ATM
Advanced Security Stateful Firewall	Enabled via Security Licens Yes	se for Universal IOS Image. IPS,	, SSL, VPN and Content Filter	ng needs additional subscriptio	n licenses Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		(POS), cha (channeliz
Onboard Hardware VPN Acceleration	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Forwarding Rate	T3/DS0, T Up to 4 or
(DES, 3DES, AES) VPN Services	Easy VPN Remote,	Easy VPN Remote, Enhanced	Easy VPN Remote, Enhanced	Easy VPN Remote server,	Easy VPN Remote server,	Easy VPN Remote server,	Easy VPN Remote/server,	Easy VPN Remote/server,	Easy VPN Remote/server,	Easy VPN Remote/server,	Easy VPN Remote/server,	Easy VPN Remote/server,	Easy VPN Remote/server,	- Orwarding Nato	Up to 2.5 depending
T IV GGI VICCO	Enhanced Easy VPN Remote	Easy VPN Remote, Dynamic Multipoint VPN (DMVPN),	Easy VPN Remote, Dynamic Multipoint VPN (DMVPN),	Enhanced Easy VPN, Dynamic Multipoint VPN (DMVPN),	Enhanced Easy VPN, Dynamic Multipoint VPN (DMVPN),	Enhanced Easy VPN, Dynamic Multipoint VPN (DMVPN),	Enhanced Easy VPN, Dynamic Multipoint VPN (DMVPN),	Enhanced Easy VPN, Dynamic Multipoint VPN (DMVPN),	Enhanced Easy VPN, Dynamic Multipoint VPN (DMVPN),	Enhanced Easy VPN, Dynamic Multipoint VPN (DMVPN),	Enhanced Easy VPN, Dynamic Multipoint VPN (DMVPN),	Enhanced Easy VPN, Dynamic Multipoint VPN (DMVPN),	Enhanced Easy VPN, Dynamic Multipoint VPN (DMVPN),		performan or upgrade
		Group Encrypted Transport VPN (GET VPN)	Group Encrypted Transport VPN (GET VPN)	Group Encrypted Transport VPN (GET VPN), V3PN, MPLS VPN	Group Encrypted Transport VPN (GET VPN), V3PN, MPLS VPN		Group Encrypted Transport VPN (GET VPN), V3PN, MPLS VPN			Group Encrypted Transport VPN (GET VPN), V3PN, MPLS VPN	Group Encrypted Transport VPN (GET VPN), V3PN, MPLS VPN	Group Encrypted Transport VPN (GET VPN), V3PN, MPLS VPN		Minimum Cisco IOS XE Release	IOS XE 3.2
SSL VPN	N/A	*Requires Advanced IP license Yes	*Requires Advanced IP license Yes	Yes	Yes	Yes	Yes	Yes	Yes	Ves	Yes	Yes	Yes	IOS AE Release	4XT3, ASF
Intrusion Prevention and FPM	N/A	Yes *Requires Advanced	Yes *Requires Advanced	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	_	ASR1001-
Content Filtering	N/A	IP license Yes	IP license Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	System DRAM Memory	4 GB (defa
Network Foundation Protection	ACL, QoS (limited support)	ACL, Control Plane Policing	ACL, Control Plane Policing	ACL, Control Plane Policing	ACL, Control Plane Policing	ACL, Control Plane Policing	ACL, Control Plane Policing	ACL, Control Plane Policing	ACL, Control Plane Policing	ACL, Control Plane Policing	ACL, Control Plane Policing	ACL, Control Plane Policing	ACL, Control Plane Policing		
	Role-based CLI Access, Source-based RTBH, uRPF,	(CoPP), QoS, Role-based CLI Access, Source-based RTBH,	(CoPP), QoS, Role-based CLI Access, Source-based RTBH,	(CoPP), QoS, Role-based CLI Access, Source-based RTBH,	(CoPP), QoS, Role-based CLI Access, Source-based RTBH,	(CoPP), QoS, Role-based CLI Access, Source-based RTBH,	(CoPP), QoS, Role-based CLI Access, Source-based RTBH,	(CoPP), QoS, Role-based CLI Access, Source-based RTBH,	(CoPP), QoS, Role-based CLI Access, Source-based RTBH,	(CoPP), QoS, Role-based CLI Access, Source-based RTBH,	(CoPP), QoS, Role-based CLI Access, Source-based RTBH,	(CoPP), QoS, Role-based CLI Access, Source-based RTBH,	(CoPP), QoS, Role-based CLI Access, Source-based RTBH,	Redundant Power Supply	
	SSHv2	uRPF, SSHv2 *Some features require Advanced IP license	uRPF, SSHv2 *Some features require Advanced IP license	uRPF, SSHv2	uRPF, SSHv2	uRPF, SSHv2	uRPF, SSHv2	uRPF, SSHv2	uRPF, SSHv2	uRPF, SSHv2	uRPF, SSHv2	uRPF, SSHv2	uRPF, SSHv2	Advanced Security: E	
ISR Web Security	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Zone-based Firewall and NAT services	Yes, up to VRF aware
Unified Communication Local Conferencing	Enabled via Unified Commu	unications License for Universal	N/A	port through separate feature li	N/A	Yes, use PVDM3 or PVDM2	Yes, use PVDM3 or PVDM2	Yes, use PVDM3 or PVDM2	Yes, use PVDM3 or PVDM2	Yes, use PVDM3 or PVDM2	Yes, use PVDM3 or PVDM2	Yes, use PVDM3 or PVDM2	Yes, use PVDM3 or PVDM2	VPN services	IPsec, GRI Enhanced
Digital Signal Processor Support	N/A	Yes, on SRST models	N/A	N/A	N/A	PVDM3 and PVDM2	PVDM3 and PVDM2	PVDM3 and PVDM2	PVDM3 and PVDM2	PVDM3 and PVDM2	PVDM3 and PVDM2	PVDM3 and PVDM2	PVDM3 and PVDM2	_	Multipoint DMVPN, G
Cisco Unified Survivable Remote Site Telephony Support	N/A	Up to 4 on SRST models	N/A	N/A	N/A	Up to 35	Up to 50	Up to 100	Up to 250	Up to 730	Up to 1200	Up to 1350	Up to 1500		VPN (GET
Cisco Unified Communications	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
Manager Express Support Cisco Unified Messaging Gateway	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1000 SRSV, VPIM or E-SRST	1000 SRSV, VPIM or E-SRST	1000 SRSV, VPIM or E-SRST	1000 SRSV, VPIM or E-SRST	1000 SRSV, VPIM or E-SRST	Maximum IPsec Tunnels	4000
(NME, NME-EC, SM or ISM)		,	·	,	,, .	·	,	,	nodes (with SRE-900)	nodes (with SRE-900)	nodes (with SRE-900)	nodes (with SRE-900)	nodes (with SRE-900)	Netflow Event Logging—	
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)	32 ports; 500 mailboxes (with SRE-700)	32 ports; 500 mailboxes (with SRE-700)	32 ports; 500 mailboxes (with SRE-700)	32 ports; 500 mailboxes (with SRE-700)	For Firewall and NAT services	
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	N/A	64 ports; 1510 mailboxes (with SRE-900)	64 ports; 1510 mailboxes (with SRE-900)	64 ports; 1510 mailboxes (with SRE-900)	64 ports; 1510 mailboxes (with SRE-900)	64 ports; 1510 mailboxes (with SRE-900)	Network Foundation	ACL, Cont
Cisco Unified Border Element	N/A	Up to 4	N/A	N/A	N/A	100	200	400	600	800	950	2100	2500	Protection	QoS, Role Source-ba
(SIP/H.323 Sessions) Cisco Unified SIP Proxy	N/A	N/A	N/A	N/A	N/A	N/A	10 CPS (with SRE-700 and	10 CPS (with SRE-700 and	100 CPS (with SRE-700	100 CPS (with SRE-700	200 CPS (with SRE-900)	100 CPS (with SRE-700 and	200 CPS (with SRE-900)	Unified Communication	on: Enabled
<u> </u>					N/A		SRE-900)	SRE-900)	and SRE-900)	and SRE-900)		SRE-900)		Cisco Unified Border Element (Enterprise	5000
Digital Voice and Video (T1/E1 channels) Analog/BRI Voice	N/A N/A	N/A FXS 4, FXO 1, BRI 1 on SRST	N/A N/A	N/A N/A	N/A N/A	Up to 100 FXS 16, FXO 16, BRI 8	Up to 150 FXS 40, FXO 28, BRI 16	Up to 240 FXS 40, FXO 28, BRI 16	Up to 400 FXS 64, FXO 40, BRI 24	Up to 720 FXS 64, FXO 40, BRI 24	Up to 900 FXS 112, FXO 64, BRI 40	Up to 600 FXS 60, FXO 36, BRI 22	Up to 840 FXS 108, FXO 60, BRI 38	Edition) — SIP Trunking (Managed)	
Development Multipart		models												Cisco Unified Border Element (SP Edition) –	5000
Routing and Multicast IPv4 Routing Protocols	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,	SIP Trunking (SP hosted)	
3 3		PBR *Some features require Advanced IP license	PBR *Some features require Advanced IP license	PBR, PfR	PBR, PfR	PBR, PfR	PBR, PfR	PBR, PfR	PBR, PfR	PBR, PfR	PBR, PfR	PBR, PfR	PBR, PfR	cRTP	Yes
Multicast Routing Protocols	N/A	PIM-SM, mroute (static route), and MLD *Requires Advanced	PIM-SM, mroute (static route), and MLD *Requires Advanced	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	PIM-SM, mroute (static route), and MLD	WebEx Node	No
				and MED	and MED	and MED		and MLD	and MED	and MED	and MED	and MLD	and MED	B2B TelePresence Enablement	Yes
IPv6 Routing Protocols		IP license	IP license												
	N/A	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR	Routing and Multicast	t
Wireless LAN	N/A	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP	EIGRP, RIP, OSPFv3, IS-IS, BGP				EIGRP, RIP, OSPFv3, IS-IS,								
Wireless LAN Integrated 802.11 b/g/n Access Point	N/A Yes	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced				EIGRP, RIP, OSPFv3, IS-IS,							Routing and Multicast IPv4 Routing Protocols Multicast Routing	RIP v1/v2,
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point		IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A Yes	N/A N/A	BGP and PBR	N/A N/A	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols	RIP v1/v2,
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Unified and Autonomous Mode	Yes N/A Autonomous	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A Both	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A Yes Both	N/A N/A N/A	N/A Yes (1941W only) Both (1941W only)	N/A N/A N/A	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols	RIP v1/v2, PIM-SM, r and MLD
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Unified and Autonomous Mode RP-TNC Connectors for Field-replaceable	Yes N/A	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A Yes	N/A N/A	N/A Yes (1941W only)	N/A N/A	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols Netflow v5/v9	RIP v1/v2, PIM-SM, r and MLD
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Unified and Autonomous Mode RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas)	Yes N/A Autonomous N/A Yes	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A Both Yes (select models only)	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A Yes Both Yes Yes	N/A N/A N/A N/A N/A	N/A Yes (1941W only) Both (1941W only) Yes (1941W only) Yes (1941W only)	N/A N/A N/A N/A N/A	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols Netflow v5/v9 High Availability	PIM-SM, r and MLD EIGRP, RIP BGP and F
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Unified and Autonomous Mode RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas)	Yes N/A Autonomous N/A	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A Both Yes (select models only)	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A Yes Both Yes	N/A N/A N/A N/A	N/A Yes (1941W only) Both (1941W only) Yes (1941W only) Yes (1941W only) Yes (1941W only) Yes (1941W only)	N/A N/A N/A N/A N/A N/A Ves Up to 10 802.11 a/b/g/n AP	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A N/A N/A	N/A N/A N/A N/A N/A Up to 50	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A N/A Up to 50	N/A N/A N/A N/A	N/A N/A N/A N/A	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols Netflow v5/v9 High Availability In Service Software Upgrade (ISSU)	RIP v1/v2, PIM-SM, r and MLD EIGRP, RIP BGP and F Yes
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Unified and Autonomous Mode RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Wireless LAN Controller Module	Yes N/A Autonomous N/A Yes	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A Both Yes (select models only)	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A Yes Both Yes Yes	N/A N/A N/A N/A N/A	N/A Yes (1941W only) Both (1941W only) Yes (1941W only) Yes (1941W only) Yes (1941W only)	N/A N/A N/A N/A N/A N/A Yes	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A N/A N/A N/A Up to 50	N/A N/A N/A N/A N/A Up to 50	N/A N/A N/A N/A N/A Up to 50	N/A N/A N/A N/A N/A Up to 50	N/A N/A N/A N/A N/A Up to 50	N/A N/A N/A N/A N/A Up to 50	N/A N/A N/A N/A N/A Up to 50	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols Netflow v5/v9 High Availability In Service Software Upgrade (ISSU) Software Redundancy (dual IOS on same	RIP v1/v2, PIM-SM, r and MLD EIGRP, RIP BGP and F Yes
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Unified and Autonomous Mode RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Wireless LAN Controller Module Wireless WAN	Yes N/A Autonomous N/A Yes	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A Both Yes (select models only)	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A Yes Both Yes Yes	N/A N/A N/A N/A N/A	N/A Yes (1941W only) Both (1941W only) Yes (1941W only) Yes (1941W only) Yes (1941W only) Yes (1941W only)	N/A N/A N/A N/A N/A N/A Ves Up to 10 802.11 a/b/g/n AP	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A N/A N/A N/A Up to 50	N/A N/A N/A N/A N/A Up to 50	N/A N/A N/A N/A N/A Up to 50	N/A N/A N/A N/A N/A Up to 50	N/A N/A N/A N/A N/A Up to 50	N/A N/A N/A N/A N/A Up to 50	N/A N/A N/A N/A N/A Up to 50	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols Netflow v5/v9 High Availability In Service Software Upgrade (ISSU) Software Redundancy	RIP v1/v2, PIM-SM, r and MLD EIGRP, RIP BGP and F Yes
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Unified and Autonomous Mode RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Wireless LAN Controller Module Wireless WAN 3G Cellular RP-TNC Connectors for Field-replaceable	Yes N/A Autonomous N/A Yes N/A	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A Both Yes (select models only) Yes N/A	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A Yes Both Yes Yes N/A	N/A N/A N/A N/A N/A N/A N/A	N/A Yes (1941W only) Both (1941W only) Yes Up to 10 802.11 a/b/g/n AP controllers (1941 only)	N/A N/A N/A N/A N/A N/A Ves Up to 10 802.11 a/b/g/n AP controllers	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols Netflow v5/v9 High Availability In Service Software Upgrade (ISSU) Software Redundancy (dual IOS on same Route Processor)	RIP v1/v2, PIM-SM, r and MLD EIGRP, RIP BGP and F Yes
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Unified and Autonomous Mode RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Wireless LAN Controller Module Wireless WAN 3G Cellular RP-TNC Connectors for Field-replaceable Optional High-gain Antennas	Yes N/A Autonomous N/A Yes N/A	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A Both Yes (select models only) Yes N/A	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A Yes Both Yes Yes N/A	N/A N/A N/A N/A N/A N/A N/A EHWIC	N/A Yes (1941W only) Both (1941W only) Yes (1941W only) Yes (1941W only) Yes (1941W only) Yes Up to 10 802.11 a/b/g/n AP controllers (1941 only) EHWIC	N/A N/A N/A N/A N/A N/A N/A Ves Up to 10 802.11 a/b/g/n AP controllers EHWIC	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols Netflow v5/v9 High Availability In Service Software Upgrade (ISSU) Software Redundancy (dual IOS on same Route Processor) NSF/SSO Quality of Service Hierarchical	RIP v1/v2, PIM-SM, r and MLD EIGRP, RIP, BGP and F Yes No Yes Yes
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Unified and Autonomous Mode RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Wireless LAN Controller Module Wireless WAN 3G Cellular RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas)	Yes N/A Autonomous N/A Yes N/A N/A	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A Both Yes (select models only) Yes N/A Yes Yes Yes	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A Yes Both Yes Yes 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 (1941W only) Both (1941W only) Yes (1941W only) Yes (1941W only) Yes (1941W only) Yes Up to 10 802.11 a/b/g/n AP controllers (1941 only) EHWIC Yes	N/A N/A N/A N/A N/A N/A N/A Ves Up to 10 802.11 a/b/g/n AP controllers EHWIC Yes	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes	N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols Netflow v5/v9 High Availability In Service Software Upgrade (ISSU) Software Redundancy (dual IOS on same Route Processor) NSF/SSO Quality of Service	RIP v1/v2, PIM-SM, r and MLD EIGRP, RIP, BGP and F Yes No Yes
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Unified and Autonomous Mode RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Wireless LAN Controller Module Wireless WAN 3G Cellular RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Outdoor Antennas Integrated Switching	Yes N/A Autonomous N/A Yes N/A N/A N/A	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A Both Yes (select models only) Yes N/A Yes Yes Yes Yes	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A Yes Both Yes Yes N/A 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 (1941W only) Both (1941W only) Yes (1941W only) Yes (1941W only) Yes (1941W only) Yes Up to 10 802.11 a/b/g/n AP controllers (1941 only) EHWIC Yes Yes Yes	N/A N/A N/A N/A N/A N/A N/A N/A Ves Up to 10 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes	N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes	N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes	N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes	N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols Netflow v5/v9 High Availability In Service Software Upgrade (ISSU) Software Redundancy (dual IOS on same Route Processor) NSF/SSO Quality of Service Hierarchical	RIP v1/v2, PIM-SM, r and MLD EIGRP, RIP BGP and F Yes No Yes 3-level hie GRE tunne policy, 400 support fo all queues maximum,
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Unified and Autonomous Mode RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Wireless LAN Controller Module Wireless WAN 3G Cellular RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Outdoor Antennas Integrated Switching Maximum Ethernet Ports	Yes N/A Autonomous N/A Yes N/A N/A N/A	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A Both Yes (select models only) Yes N/A Yes Yes Yes Yes	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A Yes Both Yes Yes N/A 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 (1941W only) Both (1941W only) Yes (1941W only) Yes (1941W only) Yes (1941W only) Yes Up to 10 802.11 a/b/g/n AP controllers (1941 only) EHWIC Yes Yes Yes	N/A N/A N/A N/A N/A N/A N/A N/A Ves Up to 10 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A N/A N/A N/A Vp to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes 40	N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes 66	N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes 666	N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes 86	N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes 110	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols Netflow v5/v9 High Availability In Service Software Upgrade (ISSU) Software Redundancy (dual IOS on same Route Processor) NSF/SSO Quality of Service Hierarchical Quality-of-Service	PIM-SM, rand MLD EIGRP, RIP, BGP and F Yes No Yes 3-level hie GRE tunner policy, 400 support for all queues maximum, with priorit
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Unified and Autonomous Mode RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Wireless LAN Controller Module Wireless WAN 3G Cellular RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Diversity (Dual Antennas) Outdoor Antennas Integrated Switching Maximum Ethernet Ports Maximum Ethernet LAN Ports with POE	Yes N/A Autonomous N/A Yes N/A N/A N/A	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A Both Yes (select models only) Yes N/A Yes Yes Yes Yes	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A Yes Both Yes Yes N/A 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 (1941W only) Both (1941W only) Yes (1941W only) Yes (1941W only) Yes (1941W only) Yes Up to 10 802.11 a/b/g/n AP controllers (1941 only) EHWIC Yes Yes Yes	N/A N/A N/A N/A N/A N/A N/A N/A Ves Up to 10 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes	N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes	N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes	N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes	N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols Netflow v5/v9 High Availability In Service Software Upgrade (ISSU) Software Redundancy (dual IOS on same Route Processor) NSF/SSO Quality of Service Hierarchical Quality-of-Service	PIM-SM, rand MLD EIGRP, RIP BGP and F Yes No Yes 3-level hie GRE tunne policy, 400 support fo all queues maximum, with priorit
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Unified and Autonomous Mode RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Wireless LAN Controller Module Wireless WAN BG Cellular RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas)	Yes N/A Autonomous N/A Yes N/A N/A N/A N/A N/A 0	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A Both Yes (select models only) Yes N/A Yes Yes Yes Yes Yes Yes Yes Ye	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A Yes Both Yes N/A N/A N/A N/A N/A N/A N/A N/	BGP and PBR N/A N/A N/A N/A N/A N/A N/A PHWIC Yes Yes Yes 9	N/A Yes (1941W only) Both (1941W only) Yes (1941W only) Yes (1941W only) Yes (1941W only) Yes Up to 10 802.11 a/b/g/n AP controllers (1941 only) EHWIC Yes Yes 12 12	N/A N/A N/A N/A N/A N/A N/A N/A Ves Up to 10 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes 16 16	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes 40 40 40 Yes, 200W Yes, 750W	N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes 66 64	N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes 66 64	N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes 90 88	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes 114 112	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes 86 88	N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes 110 112	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols Netflow v5/v9 High Availability In Service Software Upgrade (ISSU) Software Redundancy (dual IOS on same Route Processor) NSF/SSO Quality of Service Hierarchical Quality-of-Service Application Services Application Acceleration/ WAN Optimization	RIP v1/v2, PIM-SM, r and MLD EIGRP, RIP BGP and F Yes No Yes 3-level hie GRE tunne policy, 400 support fo all queues maximum, with priorit Yes, WCC WAAS App
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Unified and Autonomous Mode RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Wireless LAN Controller Module Wireless WAN BG Cellular RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas)	Yes N/A Autonomous N/A Yes N/A N/A N/A N/A N/A N/A N/A N/A	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A Both Yes (select models only) Yes N/A Yes Yes Yes Yes Yes Yes Yes Ye	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A Yes Both Yes Yes N/A N/A N/A N/A N/A N/A N/A N/	BGP and PBR N/A N/A N/A N/A N/A N/A N/A N/	N/A Yes (1941W only) Both (1941W only) Yes (1941W only) Yes (1941W only) Yes (1941W only) Yes Up to 10 802.11 a/b/g/n AP controllers (1941 only) EHWIC Yes Yes Yes Yes Yes 12 12 12 Yes, 80W	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Yes Up to 10 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes Yes	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes 40 40 40 Yes, 200W	N/A	N/A	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes Yes, 520W	BGP and PBR N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes 114 112 Yes, 520W	N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes 86 88 Yes, 520W	N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes 110 112 Yes, 520W	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols Netflow v5/v9 High Availability In Service Software Upgrade (ISSU) Software Redundancy (dual IOS on same Route Processor) NSF/SSO Quality of Service Hierarchical Quality-of-Service Application Services Application Acceleration/	RIP v1/v2, PIM-SM, r and MLD EIGRP, RIP BGP and F Yes No Yes 3-level hie GRE tunner policy, 400 support for all queues maximum, with priorit Yes, WCC
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Integrated Poptional High-gain Antennas Integrated Switching Integrated Switc	Yes N/A Autonomous N/A Yes N/A N/A N/A N/A N/A N/A N/A N/A	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A Both Yes (select models only) Yes N/A Yes Yes Yes Yes Yes Yes Yes Ye	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A Yes Both Yes Yes N/A N/A N/A N/A N/A N/A N/A N/	BGP and PBR N/A N/A N/A N/A N/A N/A N/A N/A EHWIC Yes Yes Yes 9 Yes, 80W No	N/A Yes (1941W only) Both (1941W only) Yes (1941W only) Yes (1941W only) Yes (1941W only) Yes Up to 10 802.11 a/b/g/n AP controllers (1941 only) EHWIC Yes Yes Yes 12 12 12 Yes, 80W No	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Yes Up to 10 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes 16 16 16 16 Yes, 130W No	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes 40 40 40 Yes, 200W Yes, 750W	N/A	N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes Yes Yes, 370W Yes, 750W	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes (2 Single) or	BGP and PBR N/A N/A N/A N/A N/A Vp to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes 114 112 Yes, 520W Yes, 1040 (Up to 4 Single) or	N/A N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes (2 Single) or	N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes 110 112 Yes, 520W Yes, 1040 (Up to 4 Single) or	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols Netflow v5/v9 High Availability In Service Software Upgrade (ISSU) Software Redundancy (dual IOS on same Route Processor) NSF/SSO Quality of Service Hierarchical Quality-of-Service Application Acceleration/ WAN Optimization Application Visibility and Control (AVC) Flexible Packet Matching	RIP v1/v2, PIM-SM, r and MLD EIGRP, RIP BGP and F Yes No Yes 3-level hie GRE tunne policy, 400 support fo all queues maximum, with priorit Yes, WCC WAAS App Yes, 900+
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Unified and Autonomous Mode IRP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Wireless LAN Controller Module Wireless WAN IG Cellular IRP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Integrated Switching Maximum Ethernet Ports Maximum Ethernet LAN Ports with POE PoE Support (Wattage) No PoE Boost PoE Support (Wattage) with PoE Boost EtherSwitch Service Module type (Width) Application/WAN Optimization Route Optimization	Yes N/A Autonomous N/A Yes N/A	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A Both Yes (select models only) Yes N/A Yes Yes Yes Yes Yes N/A N/A N/A N/A	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A Yes Both Yes Yes N/A N/A N/A N/A N/A N/A N/A N/	BGP and PBR	N/A Yes (1941W only) Both (1941W only) Yes (1941W only) Yes (1941W only) Yes (1941W only) Yes (1941 only) EHWIC Yes Yes Yes Yes 12 12 12 Yes, 80W No N/A	BGP and PBR N/A N/A N/A N/A N/A N/A N/A Yes Up to 10 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes PfR	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes 1 Single PfR	N/A N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes 1 Single or 1 Double PfR	N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Solution Yes, 370W Yes, 750W 2 Single or 1 Double PfR PfR Solution PfR Solution PfR Solution PfR Solution PfR Solution PfR Pf	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes 1 Yes Yes, 520W Yes, 1040 (2 Single) or (1 Single + 1 Double)	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes 114 112 Yes, 520W Yes, 1040 (Up to 4 Single) or (Up to 2 Single + 1 Double)	N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes (2 Single) or (1 Single + 1 Double)	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes (Up to 4 Single) or (Up to 2 Single + 1 Double)	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols Netflow v5/v9 High Availability In Service Software Upgrade (ISSU) Software Redundancy (dual IOS on same Route Processor) NSF/SSO Quality of Service Hierarchical Quality-of-Service Application Acceleration/ WAN Optimization Application Visibility and Control (AVC)	RIP v1/v2, PIM-SM, r and MLD EIGRP, RIP BGP and F Yes No Yes 3-level hie GRE tunne policy, 400 support fo all queues maximum, with priorit Yes, WCC WAAS App Yes, 900+
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Unified and Autonomous Mode RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Wireless LAN Controller Module Wireless WAN BG Cellular RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Diversity (Dual Antennas) Dutdoor Antennas Integrated Switching Maximum Ethernet Ports Maximum Ethernet LAN Ports with POE POE Support (Wattage) No PoE Boost EtherSwitch Service Module type (Width) Application/WAN Optimization Route Optimization Network Contention Control	Yes N/A Autonomous N/A Yes N/A	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A Both Yes (select models only) Yes N/A Yes Yes Yes Yes Yes Yes Your of the property of the p	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A Yes Both Yes Yes N/A	BGP and PBR	N/A Yes (1941W only) Both (1941W only) Yes (1941W only) Yes (1941W only) Yes (1941W only) Yes Up to 10 802.11 a/b/g/n AP controllers (1941 only) EHWIC Yes Yes Yes Yes 12 12 12 Yes, 80W No N/A PfR QoS, HQoS	BGP and PBR N/A N/A N/A N/A N/A N/A N/A Yes Up to 10 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes PfR QoS, HQoS	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes 40 40 Yes, 200W Yes, 750W 1 Single PfR QoS, HQoS	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes 1 Single or 1 Double PfR QoS, HQoS	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes PfR QoS, HQoS	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes 90 88 Yes, 520W Yes, 1040 (2 Single) or (1 Single + 1 Double) PfR QoS, HQoS	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes 114 112 Yes, 520W Yes, 1040 (Up to 4 Single) or (Up to 2 Single + 1 Double) PfR QoS, HQoS	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes 1040 (2 Single) or (1 Single + 1 Double)	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes 110 112 Yes, 520W Yes, 1040 (Up to 4 Single) or (Up to 2 Single + 1 Double) PfR QoS, HQoS	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols Netflow v5/v9 High Availability In Service Software Upgrade (ISSU) Software Redundancy (dual IOS on same Route Processor) NSF/SSO Quality of Service Hierarchical Quality-of-Service Application Acceleration/ WAN Optimization Application Visibility and Control (AVC) Flexible Packet Matching	RIP v1/v2, PIM-SM, r and MLD EIGRP, RIP BGP and F Yes No Yes 3-level hie GRE tunne policy, 400 support fo all queues maximum, with priorit Yes, WCC WAAS App Yes, 900+
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Unified and Autonomous Mode RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Wireless LAN Controller Module Wireless WAN 3G Cellular RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Entegrated Switching Maximum Ethernet Ports Maximum Ethernet LAN Ports with POE PoE Support (Wattage) No PoE Boost PoE Support (Wattage) with PoE Boost EtherSwitch Service Module type (Width) Application/WAN Optimization Route Optimization Network Contention Control Application Visibility	Yes N/A Autonomous N/A Yes N/A	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A Both Yes (select models only) Yes N/A Yes Yes Yes Yes Yes N/A N/A N/A N/A	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A Yes Both Yes Yes N/A N/A N/A N/A N/A N/A N/A N/	BGP and PBR	N/A Yes (1941W only) Both (1941W only) Yes (1941W only) Yes (1941W only) Yes (1941W only) Yes (1941 only) EHWIC Yes Yes Yes Yes 12 12 12 Yes, 80W No N/A	BGP and PBR N/A N/A N/A N/A N/A N/A N/A Yes Up to 10 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes PfR	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes 1 Single PfR	N/A N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes 1 Single or 1 Double PfR	N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Solution Yes, 370W Yes, 750W 2 Single or 1 Double PfR PfR Solution PfR Solution PfR Solution PfR Solution PfR Solution PfR Pf	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes 1 Yes Yes, 520W Yes, 1040 (2 Single) or (1 Single + 1 Double)	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes 114 112 Yes, 520W Yes, 1040 (Up to 4 Single) or (Up to 2 Single + 1 Double)	N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes (2 Single) or (1 Single + 1 Double)	N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes (Up to 4 Single) or (Up to 2 Single + 1 Double)	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols Netflow v5/v9 High Availability In Service Software Upgrade (ISSU) Software Redundancy (dual IOS on same Route Processor) NSF/SSO Quality of Service Hierarchical Quality-of-Service Application Acceleration/ WAN Optimization Application Visibility and Control (AVC) Flexible Packet Matching	RIP v1/v2, PIM-SM, r and MLD EIGRP, RIP BGP and F Yes No Yes 3-level hie GRE tunne policy, 400 support fo all queues maximum, with priorit Yes, WCC WAAS App Yes, 900+
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Integrated Suiters for Field-replaceable Integrated Suiters for Field-replaceable Integrated Suiters for Field-replaceable Integrated Suiters for Field-replaceable Integrated Switching Integrated Switching Integrated Suiters for Field-replaceable Integrated Suiters for Field-replaceable Integrated Switching Integrated Switching Integrated Switching Integrated Switching Integrated Suiters for Field-replaceable Integrated Switching Integrated Switchi	Yes N/A Autonomous N/A Yes N/A	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A Both Yes (select models only) Yes N/A Yes Yes Yes Yes Yes Yes Your of the property of th	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A Yes Both Yes N/A N/A N/A N/A N/A N/A N/A N/	BGP and PBR	N/A Yes (1941W only) Both (1941W only) Yes (1941W only) Yes (1941W only) Yes (1941W only) Yes Up to 10 802.11 a/b/g/n AP controllers (1941 only) EHWIC Yes Yes Yes Yes PfR QoS, HQoS NBAR	BGP and PBR N/A N/A N/A N/A N/A N/A Yes Up to 10 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes PfR QoS, HQoS NBAR	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes 40 40 40 Yes, 200W Yes, 750W 1 Single PfR QoS, HQoS NBAR	N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes 166 64 Yes, 280W Yes, 750W 1 Single or 1 Double PfR QoS, HQoS NBAR	BGP and PBR N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes PfR QoS, HQoS NBAR	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes PfR QoS, HQoS NBAR	BGP and PBR N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes 114 112 Yes, 520W Yes, 1040 (Up to 4 Single) or (Up to 2 Single + 1 Double) PfR QoS, HQoS NBAR	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes 1	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes (Up to 4 Single) or (Up to 2 Single + 1 Double) PfR QoS, HQoS NBAR	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols Netflow v5/v9 High Availability In Service Software Upgrade (ISSU) Software Redundancy (dual IOS on same Route Processor) NSF/SSO Quality of Service Hierarchical Quality-of-Service Application Acceleration/ WAN Optimization Application Visibility and Control (AVC) Flexible Packet Matching (FPM)	RIP v1/v2, PIM-SM, r and MLD EIGRP, RIP BGP and F Yes No Yes 3-level hie GRE tunne policy, 400 support fo all queues maximum, with priorit Yes, WCC WAAS App Yes, 900+ Yes
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Unified and Autonomous Mode RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Wireless LAN Controller Module Wireless WAN 3G Cellular RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Divers	Yes N/A Autonomous N/A Yes N/A	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A Both Yes (select models only) Yes N/A Yes Yes Yes Yes Yes Yes Your of the property of th	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A N/A Yes Both Yes N/A N/A N/A N/A N/A N/A N/A N/	BGP and PBR N/A N/A N/A N/A N/A N/A N/A EHWIC Yes Yes Yes Yes Yes PfR QoS, HQoS NBAR WAAS Express	N/A Yes (1941W only) Both (1941W only) Yes (1941W only) Yes (1941W only) Yes (1941W only) Yes Up to 10 802.11 a/b/g/n AP controllers (1941 only) EHWIC Yes Yes Yes Yes PfR QoS, HQoS NBAR	BGP and PBR N/A N/A N/A N/A N/A N/A Yes Up to 10 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes PfR QoS, HQoS NBAR	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes 40 40 40 Yes, 200W Yes, 750W 1 Single PfR QoS, HQoS NBAR	N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes 166 64 Yes, 280W Yes, 750W 1 Single or 1 Double PfR QoS, HQoS NBAR	N/A N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Fereign Street	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes PfR QoS, HQoS NBAR	BGP and PBR N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes 114 112 Yes, 520W Yes, 1040 (Up to 4 Single) or (Up to 2 Single + 1 Double) PfR QoS, HQoS NBAR	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes PfR QoS, HQoS NBAR WAAS on SRE SRE Module	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes 110 112 Yes, 520W Yes, 1040 (Up to 4 Single) or (Up to 2 Single + 1 Double) PfR QoS, HQoS NBAR WAAS on SRE	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols Netflow v5/v9 High Availability In Service Software Upgrade (ISSU) Software Redundancy (dual IOS on same Route Processor) NSF/SSO Quality of Service Hierarchical Quality-of-Service Application Acceleration/ WAN Optimization Application Visibility and Control (AVC) Flexible Packet Matching (FPM)	RIP v1/v2, PIM-SM, r and MLD EIGRP, RIP BGP and F Yes No Yes 3-level hie GRE tunne policy, 400 support fo all queues maximum, with priorit Yes, WCC WAAS App Yes, 900+
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Unified and Autonomous Mode RP-TNC Connectors for Field-replaceable Diversity (Dual Antennas) Diversity (Dual Antennas) Wireless LAN Controller Module Wireless WAN 3G Cellular RP-TNC Connectors for Field-replaceable Diversity (Dual Antennas) Diversity	Yes N/A Autonomous N/A Yes N/A	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A Both Yes (select models only) Yes Yes Yes Yes Yes Yes Yes Ye	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A Yes Both Yes N/A N/A N/A N/A N/A N/A N/A N/	BGP and PBR	BGP and PBR N/A Yes (1941W only) Both (1941W only) Yes (1941W only) Yes (1941W only) Yes Up to 10 802.11 a/b/g/n AP controllers (1941 only) EHWIC Yes Yes Yes Yes PfR QoS, HQoS NBAR WAAS Express SRE Module N/A	BGP and PBR N/A N/A N/A N/A N/A N/A N/A Yes Up to 10 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes PfR QoS, HQoS NBAR WAAS Express SRE Module N/A	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes Yes A0 40 40 Yes, 200W Yes, 750W 1 Single PfR QoS, HQoS NBAR WAAS Express, WAAS on SRE SRE Module UCS Express	BGP and PBR N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes Yes Ye	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes Yes ABAR WAAS Express, WAAS on SRE SRE Module UCS Express	BGP and PBR N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes Yes, 520W Yes, 1040 (2 Single) or (1 Single + 1 Double) PfR QoS, HQoS NBAR WAAS Express, WAAS on SRE SRE Module UCS Express	BGP and PBR N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes 114 112 Yes, 520W Yes, 1040 (Up to 4 Single) or (Up to 2 Single + 1 Double) PfR QoS, HQoS NBAR WAAS Express, WAAS on SRE SRE Module UCS Express	BGP and PBR N/A N/A N/A N/A N/A Vp to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes Yes Name of the part o	BGP and PBR N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes 110 112 Yes, 520W Yes, 1040 (Up to 4 Single) or (Up to 2 Single + 1 Double) PfR QoS, HQoS NBAR WAAS on SRE SRE Module UCS Express	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols Netflow v5/v9 High Availability In Service Software Upgrade (ISSU) Software Redundancy (dual IOS on same Route Processor) NSF/SSO Quality of Service Hierarchical Quality-of-Service Application Acceleration/ WAN Optimization Application Visibility and Control (AVC) Flexible Packet Matching (FPM)	RIP v1/v2, PIM-SM, r and MLD EIGRP, RIP BGP and F Yes No Yes 3-level hie GRE tunne policy, 400 support fo all queues maximum, with priorit Yes, WCC WAAS App Yes, 900+ Yes
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Unified and Autonomous Mode RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Wireless LAN Controller Module Wireless WAN GG Cellular RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Divers	Yes N/A Autonomous N/A Yes N/A N/A N/A N/A N/A N/A N/A N/A	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A Both Yes (select models only) Yes N/A Yes Yes Yes Yes Yes Yes Yes Ye	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A N/A Yes Both Yes N/A N/A N/A N/A N/A N/A N/A N/	BGP and PBR N/A N/A N/A N/A N/A N/A N/A EHWIC Yes Yes Yes Yes Yes PfR QoS, HQoS NBAR WAAS Express	BGP and PBR N/A Yes (1941W only) Both (1941W only) Yes (1941W only) Yes (1941W only) Yes (1941 only) EHWIC Yes Yes Yes Yes Yes PfR QoS, HQoS NBAR WAAS Express SRE Module	BGP and PBR N/A N/A N/A N/A N/A N/A Yes Up to 10 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes PfR QoS, HQoS NBAR WAAS Express SRE Module	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes Yes A0 40 40 Yes, 200W Yes, 750W 1 Single PfR QoS, HQoS NBAR WAAS Express, WAAS on SRE	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes 1 Single or 1 Double PfR QoS, HQoS NBAR WAAS Express, WAAS on SRE SRE Module	N/A N/A N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Fereign Street	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes 90 88 Yes, 520W Yes, 1040 (2 Single) or (1 Single + 1 Double) PfR QoS, HQoS NBAR WAAS Express, WAAS on SRE	BGP and PBR N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes 114 112 Yes, 520W Yes, 1040 (Up to 4 Single) or (Up to 2 Single + 1 Double) PfR QoS, HQoS NBAR WAAS Express, WAAS on SRE	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes PfR QoS, HQoS NBAR WAAS on SRE SRE Module	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes 110 112 Yes, 520W Yes, 1040 (Up to 4 Single) or (Up to 2 Single + 1 Double) PfR QoS, HQoS NBAR WAAS on SRE	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols Netflow v5/v9 High Availability In Service Software Upgrade (ISSU) Software Redundancy (dual IOS on same Route Processor) NSF/SSO Quality of Service Hierarchical Quality-of-Service Application Acceleration/ WAN Optimization Application Visibility and Control (AVC) Flexible Packet Matching (FPM)	RIP v1/v2, PIM-SM, r and MLD EIGRP, RIP BGP and F Yes No Yes 3-level hie GRE tunne policy, 400 support fo all queues maximum, with priorit Yes, WCC WAAS App Yes, 900+ Yes
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Unified and Autonomous Mode RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Wireless LAN Controller Module Wireless WAN 3G Cellular RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Outdoor Antennas	Yes N/A Autonomous N/A Yes N/A	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A Both Yes (select models only) Yes Yes Yes Yes Yes Yes Yes Ye	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A Yes Both Yes N/A N/A N/A N/A N/A N/A N/A N/	BGP and PBR	BGP and PBR N/A Yes (1941W only) Both (1941W only) Yes (1941W only) Yes (1941W only) Yes Up to 10 802.11 a/b/g/n AP controllers (1941 only) EHWIC Yes Yes Yes Yes PfR QoS, HQoS NBAR WAAS Express SRE Module N/A	BGP and PBR N/A N/A N/A N/A N/A N/A N/A Yes Up to 10 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes PfR QoS, HQoS NBAR WAAS Express SRE Module N/A	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes Yes A0 40 40 Yes, 200W Yes, 750W 1 Single PfR QoS, HQoS NBAR WAAS Express, WAAS on SRE SRE Module UCS Express	BGP and PBR N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes Yes Ye	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes Yes ABAR WAAS Express, WAAS on SRE SRE Module UCS Express	BGP and PBR N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes Yes, 520W Yes, 1040 (2 Single) or (1 Single + 1 Double) PfR QoS, HQoS NBAR WAAS Express, WAAS on SRE SRE Module UCS Express	BGP and PBR N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes 114 112 Yes, 520W Yes, 1040 (Up to 4 Single) or (Up to 2 Single + 1 Double) PfR QoS, HQoS NBAR WAAS Express, WAAS on SRE SRE Module UCS Express	BGP and PBR N/A N/A N/A N/A N/A Vp to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes Yes Name of the part o	BGP and PBR N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes 110 112 Yes, 520W Yes, 1040 (Up to 4 Single) or (Up to 2 Single + 1 Double) PfR QoS, HQoS NBAR WAAS on SRE SRE Module UCS Express	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols Netflow v5/v9 High Availability In Service Software Upgrade (ISSU) Software Redundancy (dual IOS on same Route Processor) NSF/SSO Quality of Service Hierarchical Quality-of-Service Application Acceleration/ WAN Optimization Application Visibility and Control (AVC) Flexible Packet Matching (FPM)	RIP v1/v2, PIM-SM, r and MLD EIGRP, RIP BGP and F Yes No Yes 3-level hie GRE tunne policy, 400 support fo all queues maximum, with priorit Yes, WCC WAAS App Yes, 900+ Yes
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Unified and Autonomous Mode RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Wireless LAN Controller Module Wireless WAN 3G Cellular RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Outdoor Antennas Diversity (Dual Antennas) Outdoor Antennas Integrated Switching Maximum Ethernet Ports Maximum Ethernet LAN Ports with POE PoE Support (Wattage) No PoE Boost PoE Support (Wattage) with PoE Boost EtherSwitch Service Module type (Width) Application/WAN Optimization Route Optimization Network Contention Control Application Visibility Application Services On-demand Application and Services Platform Server Virtualization Platform Network Monitoring and Analysis Third-party Applications	Yes N/A Autonomous N/A Yes N/A N/A N/A N/A N/A N/A N/A N/	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A Both Yes (select models only) Yes N/A Yes Yes Yes Yes Yes Yes Yes Ye	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A Yes Both Yes Yes N/A N/A N/A N/A N/A N/A N/A N/	BGP and PBR	BGP and PBR N/A Yes (1941W only) Both (1941W only) Yes (1941W only) Yes (1941W only) Yes Up to 10 802.11 a/b/g/n AP controllers (1941 only) EHWIC Yes Yes Yes Yes PfR QoS, HQoS NBAR WAAS Express SRE Module N/A N/A	BGP and PBR N/A N/A N/A N/A N/A N/A Yes Up to 10 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes Yes SEB 16 16 16 16 Yes, 130W No N/A PfR QoS, HQoS NBAR WAAS Express SRE Module N/A N/A	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A N/A N/A N/A Vp to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes 40 40 Yes, 200W Yes, 750W 1 Single PfR QoS, HQoS NBAR WAAS Express, WAAS on SRE SRE Module UCS Express NAM Module	BGP and PBR N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes ABA WAAS Express, WAAS on SRE SRE Module UCS Express NAM Module	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes Yes, 370W Yes, 750W 2 Single or 1 Double PfR QoS, HQoS NBAR WAAS Express, WAAS on SRE SRE Module UCS Express NAM Module	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes Yes, 520W Yes, 1040 (2 Single) or (1 Single + 1 Double) PfR QoS, HQoS NBAR WAAS Express, WAAS on SRE SRE Module UCS Express NAM Module	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes 114 112 Yes, 520W Yes, 1040 (Up to 4 Single) or (Up to 2 Single + 1 Double) PfR QoS, HQoS NBAR WAAS Express, WAAS on SRE SRE Module UCS Express NAM Module	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes PFR QoS, HQoS NBAR WAAS on SRE SRE Module UCS Express NAM Module	BGP and PBR N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes 110 112 Yes, 520W Yes, 1040 (Up to 4 Single) or (Up to 2 Single + 1 Double) PfR QoS, HQoS NBAR WAAS on SRE SRE Module UCS Express NAM Module	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols Netflow v5/v9 High Availability In Service Software Upgrade (ISSU) Software Redundancy (dual IOS on same Route Processor) NSF/SSO Quality of Service Hierarchical Quality-of-Service Application Acceleration/ WAN Optimization Application Visibility and Control (AVC) Flexible Packet Matching (FPM)	RIP v1/v2, PIM-SM, r and MLD EIGRP, RIP BGP and F Yes No Yes 3-level hie GRE tunne policy, 400 support fo all queues maximum, with priorit Yes, WCC WAAS App Yes, 900+ Yes
Integrated 802.11 b/g/n Access Point Integrated 802.11 a/b/g/n Access Point Unified and Autonomous Mode RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Wireless LAN Controller Module Wireless WAN 3G Cellular RP-TNC Connectors for Field-replaceable Optional High-gain Antennas Diversity (Dual Antennas) Outdoor Antennas Integrated Switching Maximum Ethernet Ports Maximum Ethernet LAN Ports with POE PoE Support (Wattage) No PoE Boost PoE Support (Wattage) with PoE Boost EtherSwitch Service Module type (Width) Application/WAN Optimization Route Optimization Network Contention Control Application Visibility Application Services On-demand Application and Services Platform Server Virtualization Platform Network Monitoring and Analysis Third-party Applications IP Address Management	Yes N/A Autonomous N/A Yes N/A	IP license EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license Yes N/A Both Yes (select models only) Yes Yes Yes Yes Yes Yes Yes Ye	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR *Requires Advanced IP license N/A Yes Both Yes Yes N/A N/A N/A N/A N/A N/A N/A N/	BGP and PBR	BGP and PBR N/A Yes (1941W only) Both (1941W only) Yes (1941W only) Yes (1941W only) Yes Up to 10 802.11 a/b/g/n AP controllers (1941 only) EHWIC Yes Yes Yes Yes Yes PfR QoS, HQoS NBAR WAAS Express SRE Module N/A N/A	BGP and PBR N/A N/A N/A N/A N/A N/A N/A Yes Up to 10 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes PfR QoS, HQoS NBAR WAAS Express SRE Module N/A N/A N/A	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes Yes SRE Module UCS Express NAM Module Infoblox, BlueCat	BGP and PBR N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes PfR QoS, HQoS NBAR WAAS Express, WAAS on SRE SRE Module UCS Express NAM Module Infoblox, BlueCat	BGP and PBR N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes Yes Ye	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes Yes, 520W Yes, 1040 (2 Single) or (1 Single + 1 Double) PfR QoS, HQoS NBAR WAAS Express, WAAS on SRE SRE Module UCS Express NAM Module	BGP and PBR N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes 114 112 Yes, 520W Yes, 1040 (Up to 4 Single) or (Up to 2 Single + 1 Double) PfR QoS, HQoS NBAR WAAS Express, WAAS on SRE SRE Module UCS Express NAM Module	BGP and PBR N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes Yes Yes, 520W Yes, 1040 (2 Single) or (1 Single + 1 Double) PfR QoS, HQoS NBAR WAAS on SRE SRE Module UCS Express NAM Module	BGP and PBR N/A N/A N/A N/A N/A N/A Up to 50 802.11 a/b/g/n AP controllers EHWIC Yes Yes Yes Yes 110 112 Yes, 520W Yes, 1040 (Up to 4 Single) or (Up to 2 Single + 1 Double) PfR QoS, HQoS NBAR WAAS on SRE SRE Module UCS Express NAM Module Infoblox, BlueCat	Routing and Multicast IPv4 Routing Protocols Multicast Routing Protocols IPv6 Routing Protocols Netflow v5/v9 High Availability In Service Software Upgrade (ISSU) Software Redundancy (dual IOS on same Route Processor) NSF/SSO Quality of Service Hierarchical Quality-of-Service Application Acceleration/ WAN Optimization Application Visibility and Control (AVC) Flexible Packet Matching (FPM)	RIP v1/v2, PIM-SM, r and MLD EIGRP, RIP BGP and F Yes No Yes 3-level hie GRE tunne policy, 400 support fo all queues maximum, with priorit Yes, WCC WAAS App Yes, 900+ Yes

		OII	-Demand Services	Service Resiliency	Operational Excellence	
Feature	1001	1002	1004	1006	1013	
Form Factor	1 RU	2 RU	4 RU	6 RU	13 RU	
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	
Integrated WAN Ports	4 GE ports	4 GE ports				
Embedded Services Processor (ESP)	Integrated 2.5-Gbps ESP Upgradable via a software activated license to 5 Gbps	ASR1000-ESP5 (single) or ASR1000-ESP10 (single) or ASR1000-ESP10-N (single); 5 Gbps or 10 Gbps	ASR1000-ESP10 (single) or ASR1000-ESP10-N (single): Scalable to 10 Gbps or ASR1000-ESP20 (sin- gle): Scalable to 20 Gbps or ASR1000- ESP40 (single or dual): Scalable to 40 Gbps (as of IOS XE 3.2S)	ASR1000-ESP 10 (single or dual) or ASR1000-ESP10-N (single or dual): Scalable to 10 Gbps or ASR1000- ESP20 (single or dual): Scalable to 20 Gbps or ASR1000-ESP40 (single or dual): Scalable to 40 Gbps	ASR1000-ESP40 (single or dual): Scalable to 40 Gbps	
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) 8 GB or 16 GB memory	ASR1000-RP1 (single or dual) 4 GB memory ASR1000-RP2 (single or dual) 8 GB or 16 GB memory	ASR1000-RP2 (single or dual) 8 GB or 16 GB memory	
SPA Interface Processor (SIP) Card Slots	Integrated	Integrated	2	3	6	
Shared Port Adapter (SPA) Slots	1	3	8	12	24	
Interface Support	FE, GE, 10GE, OC3 (POS/ATM), OC12 (POS/ATM), OC48 (POS), OC-192 (POS), channelized STM-1/OC3, (channelized+non-channelized) T3/DS0, T1/E1, Serial	FE, GE, 10GE, OC3 (POS/ATM), OC12 (POS/ATM), OC48 (POS), OC-192 (POS), channelized STM-1/OC3, (channelized+non-channelized) T3/DS0, T1/E1, Serial	FE, GE, 10GE, OC3 (POS/ATM), OC12 (POS/ATM), OC48 (POS), OC-192 (POS), channelized STM-1/OC3, (channelized+non-channelized) T3/DS0, T1/E1, Serial	FE, GE, 10GE, OC3 (POS/ATM), OC12 (POS/ATM), OC48 (POS), OC-192 (POS), channelized STM-1/OC3, (channelized+non-channelized) T3/DS0, T1/E1, Serial	FE, GE, 10GE, OC3 (POS/ATM), OC12 (POS/ATM), OC48 (POS), OC-192 (POS), channelized STM-1/OC3, (channelized+non-channelized) T3/DS0, T1/E1, Serial	
Forwarding Rate	Up to 4 or 7.5 Mpps Up to 2.5 or 5 Gbps depending on whether default performance of 2.5 Gbps is utilized or upgraded via license to 5 Gbps	Up to 7.5 or 15 Mpps Up to 5 or 10 Gbps depending on ESP	Up to 15 or 23 Mpps Up to 10 or 20 or 40 Gbps-depending on ESP	Up to 15 or 23 Mpps Up to 10 or 20 or 40 Gbps-depending on ESP	Up to 23 Mpps Up to 40 Gbps	
Minimum Cisco IOS XE Release	IOS XE 3.2.0S: ASR1001, ASR1001- 4XT3, ASR1001-2XOC3POS IOS XE 3.3.0S: ASR1001-8CHT1E1.	IOS XE 2.1.0	IOS XE 2.1.0	IOS XE 2.1.0	IOS XE 3.1.0S	
System DRAM Memory	ASR1001-4X1GE, ASR1001-HDD 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 GB (default); 16 GB (max.) - for ASR1000-RP2	4 GB (default); 4 GB (max.) - for ASR1000-RP1 8 GB (default); 16 GB (max.) - for ASR1000-RP2	8 GB (default); 16 GB (max.) - for ASR1000-RP2	
Redundant Power Supply	Yes, Dual AC or DC by default					
Advanced Security: Er	nabled instantly via Flexible Packet	Inspection (FPI), IPsec and Firewall	Licenses			
Zone-based Firewall and NAT services	Yes, up to 5 Gbps. VRF aware FW and VRF aware NAT	Yes, up to 10 Gbps. VRF aware FW and VRF aware NAT	Yes, up to 40 Gbps. VRF aware FW and VRF aware NAT	Yes, up to 40 Gbps. VRF aware FW and VRF aware NAT	Yes, up to 40 Gbps. VRF aware FW and VRF aware NAT	
VPN services	IPsec, GRE + IPsec, VTI, Easy VPN, Enhanced Easy VPN, Dynamic Multipoint VPN (DMVPN), 2547 over DMVPN, Group Encrypted Transport VPN (GET VPN), IPv6 IPsec SVTI	IPsec, GRE + IPsec, VTI, Easy VPN, Enhanced Easy VPN, Dynamic Multipoint VPN (DMVPN), 2547 over DMVPN, Group Encrypted Transport VPN (GET VPN), IPv6 IPsec SVTI	IPsec, GRE + IPsec, VTI, Easy VPN, Enhanced Easy VPN, Dynamic Multipoint VPN (DMVPN), 2547 over DMVPN, Group Encrypted Transport VPN (GET VPN), IPv6 IPsec SVTI	IPsec, GRE + IPsec, VTI, Easy VPN, Enhanced Easy VPN, Dynamic Multipoint VPN (DMVPN), 2547 over DMVPN, Group Encrypted Transport VPN (GET VPN), IPv6 IPsec SVTI	IPsec, GRE + IPsec, VTI, Easy VPN, Enhanced Easy VPN, Dynamic Multipoint VPN (DMVPN), 2547 over DMVPN, Group Encrypted Transport VPN (GET VPN), IPv6 IPsec SVTI	
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	
Maximum IPsec Tunnels	4000	4000	4000	4000	4000	
Netflow Event Logging– For Firewall and NAT services	Yes	Yes	Yes	Yes	Yes	
Network Foundation Protection	ACL, Control Plane Policing (CoPP), QoS, Role-based CLI Access, Source-based RTBH, uRPF, SSHv2	ACL, Control Plane Policing (CoPP), QoS, Role-based CLI Access, Source-based RTBH, uRPF, SSHv2	ACL, Control Plane Policing (CoPP), QoS, Role-based CLI Access, Source-based RTBH, uRPF, SSHv2	ACL, Control Plane Policing (CoPP), QoS, Role-based CLI Access, Source-based RTBH, uRPF, SSHv2	ACL, Control Plane Policing (CoPP), QoS, Role-based CLI Access, Source-based RTBH, uRPF, SSHv2	
Unified Communicatio	n: Enabled instantly via CUBE Licen	se				
Cisco Unified Border Element (Enterprise Edition) – SIP Trunking (Managed)	5000	1700	16000+	16000+	N/A	
Cisco Unified Border Element (SP Edition) – SIP Trunking (SP hosted)	5000	1700	16000+	16000+	N/A	
cRTP	Yes	Yes	Yes	Yes	Yes	
WebEx Node	No	Yes	Yes	Yes	Yes	
B2B TelePresence Enablement	Yes	Yes	Yes	Yes	Yes	
Routing and Multicast						
IPv4 Routing Protocols	RIP v1/v2, EIGRP, OSPF, BGP, PBR					
Multicast Routing Protocols	PIM-SM, mroute (static route), and MLD					
IPv6 Routing Protocols	EIGRP, RIP, OSPFv3, IS-IS, BGP and PBR					
Netflow v5/v9	Yes	Yes	Yes	Yes	Yes	
High Availability In Service Software	No	No	No	Yes	Yes	
Upgrade (ISSU) Software Redundancy	Yes	Yes	Yes	N/A (HW redundancy)	N/A (HW redundancy)	
(dual IOS on same Route Processor)	les	ies	ies	N/A (TWV redundancy)	N/A (TWV reduitdancy)	
NSF/SSO	Yes	Yes	Yes	Yes	Yes	
Quality of Service Hierarchical Quality-of-Service	3-level hierarchical QoS (e.g. on GRE tunnels), 256 Class-maps per policy, 4000 unique policy maps, support for 128,000 queues, allows all queues to have a minimum, maximum, and excess bandwidth with priority propagation	3-level hierarchical QoS (e.g. on GRE tunnels), 256 Class-maps per policy, 4000 unique policy maps, support for 128,000 queues, allows all queues to have a minimum, maximum, and excess bandwidth with priority propagation	3-level hierarchical QoS (e.g. on GRE tunnels), 256 Class-maps per policy, 4000 unique policy maps, support for 128,000 queues, allows all queues to have a minimum, maximum, and excess bandwidth with priority propagation	3-level hierarchical QoS (e.g. on GRE tunnels), 256 Class-maps per policy, 4000 unique policy maps, support for 128,000 queues, allows all queues to have a minimum, maximum, and excess bandwidth with priority propagation	3-level hierarchical QoS (e.g. on GRE tunnels), 256 Class-maps per policy, 4000 unique policy maps, support for 128,000 queues, allows all queues to have a minimum, maximum, and excess bandwidth with priority propagation	
Application Services	Voc MOOD at a line of	Voc WOOD Other I'm a fine	Voc MOOD: 0 to 1	Voc MOOD O to The Time of The	Voc MOOD OF	
Application Acceleration/ WAN Optimization Application Visibility and Control (AVC)	Yes, WCCPv2 to redirect traffic to WAAS Appliance, VRF-aware WCCP Yes, 900+ protocols	Yes, WCCPv2 to redirect traffic to WAAS Appliance, VRF-aware WCCP Yes, 900+ protocols	Yes, WCCPv2 to redirect traffic to WAAS Appliance, VRF-aware WCCP Yes, 900+ protocols	Yes, WCCPv2 to redirect traffic to WAAS Appliance, VRF-aware WCCP Yes, 900+ protocols	Yes, WCCPv2 to redirect traffic to WAAS Appliance, VRF-aware WCCP Yes, 900+ protocols	
Flexible Packet Matching	Yes	Yes	Yes	Yes	Yes	

more information on the Cisco ASR 1000 Series routers, please visit: www.cisco.com/go/asr1000.

1004 Router

Cisco ASR 1000 Series Routers



1001 Router





1006 Router



Cisco ISR G2 Routers

N/A

N/A

Fax over IP

Paging over IP

USGv6 Profile 1.0

Localized Device Management

Cisco 800 Series



N/A

N/A

N/A



N/A

N/A

N/A

N/A



N/A

N/A

N/A

N/A

N/A



Sagemcom, OpenText

Uplogix

Singlewire

LogLogic

Uplogix

Singlewire

Sagemcom, OpenTex

Uplogix

* 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

Uplogix

Sagemcom, OpenText

LogLogic

Uplogix

Singlewire

***2 GB available for IOS, use above 2GB for WAAS Express

Sagemcom, OpenText

LogLogic

Uplogix

Yes

© 2011 Cisco and/or its affiliates. All rights reserved. 05/11 DDM11CS3060