JUNIPER NETWORKS | Driven by Experience™

SSR100 LINE OF ROUTERS

Product Overview

SSR Series Routers enable enterprises to build service-centric fabrics for any size distributed enterprise. Powered by Session Smart technology, the purpose-built, high-performance branch routers support the software for Juniper SD-WAN driven by Mist AI. The branch routers are preloaded with Juniper Session Smart software (subscription licenses sold separately), allowing businesses to build networking environments that deliver the agility they need to move with their customers and outpace their competitors.

Product Description

Juniper® SSR Series Routers offer purpose-built, high-performance platforms that enable enterprises to build service-centric fabrics for distributed enterprises of any size.

Juniper SSR120 Session Smart™ Router and SSR130 Session Smart Router provide the hardware foundation for Juniper SD-WAN driven by Mist AI™. When deployed at the branch office, the SSR100 line of routers provide a service-centric control plane and service-aware data plane that offers IP routing, feature-rich policy management, improved visibility, and proactive analytics. The result is a next-generation SD-WAN solution that supports the evolving needs of cloud-enabled, enterprise networks.

For features and benefits of Juniper Session Smart Routers, as well as ordering information, see the Session Smart Routing Data Sheet.

Driven by Mist AI, Juniper WAN Assurance

By combining the Mist AI in Juniper Mist™ WAN Assurance with the SSR Series routers, enterprises gain industry-leading automation and insight to ensure the best user, device, and application experiences in branch and remote locations. The Juniper WAN Assurance cloud service enables simpler operations, provides better visibility into end-user experiences, and reduces mean time to repair SD-WAN issues. For detailed features and benefits of Juniper Mist WAN Assurance, see the WAN Assurance Data Sheet.

SSR120 Session Smart Router: Small Branch Model

SSR130 Session Smart Router: Medium-Sized Branch Model

SSR120 and SSR130 Session Smart Routers Specifications

	SSR120 for Small Branches	SSR130 for Medium-Sized Branches
Connectivity		
Onboard RJ-45 ports	4 x 1GbE RJ-45	6 x 1GbE RJ-45
Onboard RJ-45/SFP transceiver combo ports	2 x 1GbE RJ-45/SFP combo	2 x 1GbE RJ-45/SFP combo
LTE modules	Single integrated module, not field configurable. Refer to appliance SKUs below: • SSR120-AA: Appliance with LTE for APAC • SSR120-AE: Appliance with LTE for AMER/EMEA • SSR120-AE-TAA: TAA-compliant appliance with LTE for AMER/EMEA	Single integrated module, not field configurable. Refer to appliance SKUs below: • SSR130-AA: Appliance with LTE for APAC • SSR130-AE: Appliance with LTE for AMER/EMEA • SSR130-AE-TAA: TAA-compliant appliance with LTE for AMER/EMEA
Console	1 x 1GbE RJ-45	1 x 1GbE RJ-45
USB	1 x USB3.0	1 x USB3.0
PoE+ ports	Not supported	Not supported
Memory and Storage		
System memory (RAM)	8 GB (ECC)	16 GB (ECC)
Storage (SSD)	120 GB	120 GB
Dimensions and Power		
Form factor	Desktop: Rackmount kit (SSR100-RMK) available and sold separately	Desktop: Rackmount kit (SSR100-RMK) available and sold separately
Size (W x D x H)	8.74 x 9.48 x 1.73 in (222 x 241 x 44 mm)	
Weight	3.68 lb (1.67 kg)	
Power supply	AC (external adapter)	AC (external adapter)
External power adapter input (AC)	100-240 V AC, 50-60 Hz, 2 A	100-240 V AC, 50-60 Hz, 2 A
External power adapter output (DC)	12V DC, 5 A	12V DC, 5 A
Maximum power draw (estimated)	32.5 W	41.5 W
Acoustic noise level	19.5 dBA (normal traffic conditions and ambient temperature 27C)	23.4 dBA (normal traffic conditions and ambient temperature 27C)
Power cord	Available for all homologated countries	Available for all homologated countries
Environmental, Compliance, and Safety Certification		
Operating temperature	32° F to 104° F (0° C to 40° C)	32° F to 104° F (0°C to 40° C)
Storage temperature	-4° F to 158° F (-20° C to 70° C)	-4° F to 158° F (-20° C to 70° C)
Mean time between failures (MTBF)	192,918 hours	219,792 hours
TAA compliance	Refer to TAA-compliant appliance SKUs below: • SSR120-TAA: TAA-compliant appliance without LTE • SSR120-AE-TAA: TAA-compliant appliance with LTE for AMER/EMEA	Refer to TAA-compliant appliance SKUs below: • SSR130-TAA: TAA-compliant appliance without LTE • SSR130-AE-TAA: TAA-compliant appliance with LTE for AMER/EMEA
FIPS 140-2	Level 1 (through SSN software)	Level 1 (through SSN software)

LTE Model Specifications

	SSR1x0-AE Model	SSR1x0-AA Model
4G/LTE Capabilities		
Modem	Sierra Wireless EM7455	Sierra Wireless EM7430
Geography	AMER and EMEA	APAC (incl. ANZ)
LTE category	Cat-6	Cat-6
Carrier aggregation	Yes	Yes
SIM type	Micro-SIM	Micro-SIM
LTE bands	1, 2, 3, 4, 5, 7, 8, 12, 13, 20, 25, 26, 29, 30, 41	1, 3, 5, 7, 8, 18, 19, 21, 28, 38, 39, 40, 41
Antennas	Main and AUX (via SMA connectors)	Main and AUX (via SMA connectors)

Juniper Networks Services and Support

Juniper Networks is the leader in performance-enabling services designed to accelerate, extend, and optimize your high-performance network. Our services allow you to maximize operational efficiency while reducing costs and minimizing risk, achieving a faster time to value. Juniper Networks ensures operational excellence by optimizing the network to maintain required levels of performance, reliability, and availability. For more details, please visit https://www.juniper.net/us/en/products.html.

Service Option Definitions

Juniper Care Core Support

Juniper will provide award-winning, 24x7 remote technical support, hardware replacement, online support, and automation that improves staff productivity and decreases operational costs. Integrate your customer relationship management/ticketing systems with Juniper through a set of easy-to-use and well-defined Juniper Support APIs to provide B2B integration. More than a simple break-fix service, Juniper Care helps you meet network demands with technical and operational support designed to keep your network running reliably, while at the same time protecting your high-performance networking investment.

Juniper Care Core Plus (CP)—Return to Factory

Juniper will replace or repair the FRU identified in the Juniper-issued RMA and ship the replacement or repaired FRU, as applicable, to the ship-to address within 10 business days after Juniper's receipt of the defective FRU at the specified RMA return location. The repaired or replacement FRU may be shipped from a Juniper regional distribution center.

Juniper Care Next-Day (ND) Delivery

Juniper will deliver FRU replacements at the ship-to address in advance of receiving returned defective hardware on the next business day, provided the RMA is issued by 3 p.m. local time (based on ship-to address) on a business day. If the RMA is issued after 3 p.m. local time on a business day, Juniper Networks will deliver the replacement FRU on the second business day. "Next-day delivery" is subject to availability.

Juniper Care Same-Day (SD) Delivery

Juniper will deliver FRU replacements to the ship-to address, 24 hours a day, seven days a week, within four hours of issuance of the RMA in advance of receipt of defective hardware. "Same-day delivery" is subject to availability.

SSR120 Session Smart Router Service Options

Hardware SKU	Juniper Care Core Support	Juniper Care Core Plus Support	Juniper Care Next-Day Support	Juniper Care Same-Day Support
SSR120	SVC-COR-SSR120	SVC-CP-SSR120	SVC-ND-SSR120	SVC-SD-SSR120
SSR120-AE	SVC-COR-SSR120-AE (US and EMEA only)	SVC-CP-SSR120-AE (US and EMEA only)	SVC-ND-SSR120-AE (US and EMEA only)	SVC-SD-SSR120-AE (US and EMEA only)
SSR120-AA	SVC-COR-SSR120-AA (APAC only)	SVC-CP-SSR120-AA (APAC only)	SVC-ND-SSR120-AA (APAC only)	SVC-SD-SSR120-AA (APAC only)

SSR130 Session Smart Router Service Options

Hardware SKU	Juniper Care Core Support	Juniper Care Core Plus Support	Juniper Care Next-Day Support	Juniper Care Same-Day Support
SSR130	SVC-COR-SSR130	SVC-CP-SSR130	SVC-ND-SSR130	SVC-SD-SSR130
SSR130-AE	SVC-COR-SSR130-AE (US and EMEA only)	SVC-CP-SSR130-AE (US and EMEA only)	SVC-ND-SSR130-AE (US and EMEA only)	SVC-SD-SSR130-AE (US and EMEA only)
SSR130-AA	SVC-COR-SSR130-AA (APAC only)	SVC-CP-SSR130-AA (APAC only)	SVC-ND-SSR130-AA (APAC only)	SVC-SD-SSR130-AA (APAC only)

SSR120-TAA Service Options

Hardware SKU	Juniper Care Core Support	Juniper Care Core Plus Support	Juniper Care Next-Day Support	Juniper Care Same-Day Support
SSR120-TAA	SVC-COR-SSR120-TAA	SVC-CP-SSR120-TAA	SVC-ND-SSR120-TAA	SVC-SD-SSR120-TAA
SSR120-AE-TAA	SVC-COR-SSR120-AET (US and EMEA only)	SVC-CP-SSR120-AET (US and EMEA only)	SVC-ND-SSR120-AET (US and EMEA only)	SVC-SD-SSR120-AET (US and EMEA only)

SSR130-TAA Service Options

Hardware SKU	Juniper Care Core Support	Juniper Care Core Plus Support	Juniper Care Next-Day Support	Juniper Care Same-Day Support
SSR120-TAA	SVC-COR-SSR120-TAA	SVC-CP-SSR120-TAA	SVC-ND-SSR120-TAA	SVC-SD-SSR120-TAA
SSR120-AE-TAA	SVC-COR-SSR120-AET (US and EMEA only)	SVC-CP-SSR120-AET (US and EMEA only)	SVC-ND-SSR120-AET (US and EMEA only)	SVC-SD-SSR120-AET (US and EMEA only)

Ordering Information

To order Juniper Networks SSR Series Routers and to access software licensing information, please visit the How to Buy page at https://www.juniper.net/us/en/how-to-buy/form.html.

SKU	Description
SSR120 Session Smart Router: Small Branch Model	
SSR120	Small branch appliance (2x1GbE combo RJ-45/SFP, 4x1GbE RJ-45) without LTE*
SSR120-AE	Small branch appliance (2x1GbE combo RJ-45/SFP, 4x1GbE RJ-45) with LTE for Americas and EMEA*
SSR120-AA	Small branch appliance (2x1GbE combo RJ-45/SFP, 4x1GbE RJ-45) with LTE for APAC*
SSR120-TAA Session Smart Router: Small Branch Model for Federal	
SSR120-TAA	Small branch appliance (2x1GbE combo RJ-45/SFP, 4x1GbE RJ-45) without LTE*, TAA-compliant
SSR120-AE-TAA	Small branch appliance (2x1GbE combo RJ-45/SFP, 4x1GbE RJ-45) with LTE for Americas and EMEA*, TAA-compliant
SSR130 Session Smart Router: Medium-Sized Branch Model	
SSR130	Medium-sized branch appliance (2x1GbE combo RJ-45/SFP, 6x1GbE RJ-45) without LTE*
SSR130-AE	Medium-sized branch appliance (2x1GbE combo RJ-45/SFP, 6x1GbR RJ-45) with LTE for Americas and EMEA*
SSR130-AA	Medium-sized branch appliance (2x1GbE combo RJ-45/SFP, 6x1GbE RJ-45) with LTE for APAC*
SSR130-TAA Session Smart Router: Medium-Sized Branch Model for Federal	
SSR130-TAA	Medium-sized branch appliance (2x1GbE combo RJ-45/SFP, 6x1GbE RJ-45) without LTE*, TAA-compliant
SSR130-AE-TAA	Medium-sized branch appliance (2x1GbE combo RJ-45/SFP, 6x1GbE RJ-45) with LTE for Americas and EMEA*, TAA-compliant
Accessories	
SSR100-RMK	Rackmount kit for SSR100 line of Session Smart branch routers
SSR100-PS	AC-DC power adapter for SSR100 line of Session Smart branch routers; excludes country-specific power cord

SKU	Description
Optics	
EX-SFP-1GE-SX	Small form-factor pluggable 1000BASE-SX gigabit Ethernet optics
EX-SFP-1GE-LX	Small form-factor pluggable 1000BASE-LX gigabit Ethernet optics

* Session Smart networking software subscription license, optics, and rackmounts sold separately.

About Juniper Networks

At Juniper Networks, we are dedicated to dramatically simplifying network operations and driving superior experiences for end users. Our solutions deliver industry-leading insight, automation, security, and AI to drive real business results. We believe that powering connections will bring us closer together while empowering us all to solve the world's greatest challenges of well-being, sustainability, and equality.

Corporate and Sales Headquarters

Juniper Networks, Inc.

1133 Innovation Way

Sunnyvale, CA 94089 USA

Phone: 888.JUNIPER (888.586.4737)

or +1.408.745.2000

www.juniper.net

APAC and EMEA Headquarters

Juniper Networks International B.V.

Boeing Avenue 240 1119 PZ Schiphol-Rijk

Amsterdam, The Netherlands

Phone: +31.207.125.700

JUNIPER NETWORKS | Driven by Experience™