Data sheet

HPE NETWORKING SESSION SMART ROUTER SSR100 SERIES

Product overview

HPE Networking Session Smart Routers enable enterprises to build service-centric fabrics for any size of distributed enterprise. Powered by HPE Networking Session Smart technology, the purpose-built, high-performance branch routers are preloaded with HPE Networking 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

HPE Networking Session Smart Routers offer purpose-built, high-performance platforms that enable enterprises to build service-centric fabrics for distributed enterprises of any size.

HPE Networking Session Smart Router SSR120 and HPE Networking Session Smart Router SSR130 provide the hardware foundation for SD-WAN driven by HPE Mist. When deployed at branch offices, the SSR100 series provides a service-centric control plane and service-aware data plane that offer 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 HPE Networking Session Smart Routers, as well as ordering information, see the HPE Networking Session Smart Router data sheet.

Figure 1. HPE Networking Session Smart Router SSR120: small branch model

The HPE Networking Session Smart Router SSR100 Series provides a service-centric control plane and service-aware data plane that offer IP routing, feature-rich policy management, improved visibility, and proactive analytics.

The fixed configuration appliances in the SSR100 series are:

Architecture and key components

By combining the HPE Mist in HPE Mist Networking WAN Assurance with the HPE Networking Session Smart Router, enterprises gain industry-leading automation and insight to ensure the best user, device, and application experiences in branch and remote locations. The HPE Mist Networking 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 HPE Mist Networking WAN Assurance, see the HPE Mist Networking WAN Assurance data sheet.

Figure 2. HPE Networking Session Smart Router SSR130: medium-sized branch model

— The SSR120 for small branches
— The SSR130 for medium branches

These appliances run the FIPS 140-2 Level 1-compliant HPE Networking Session Smart Router software, which provides secure and resilient WAN connectivity.

HPE Networking Session Smart Router SSR120: Small branch solution

Figure 3. The SSR120 is ideal for small branches

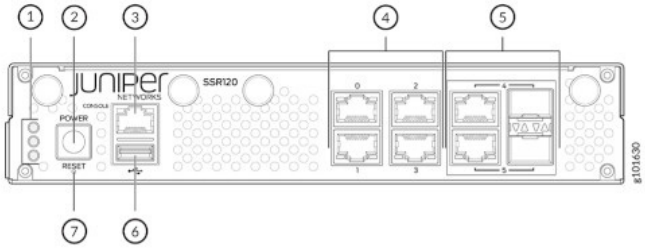

Figure 4. Front Panel Components of SSR120

SSR120 Front Panel Components

1. Chassis LEDs

2. Power button

3. Console port

4. 1GbE Ethernet ports (0 through 3)

5. 1GbE RJ-45/SFP ports (4 and 5)

6. USB 3.0 port

7. Reset button

The SSR120 supports:

— 4 x 1GbE RJ-45 ports
— 2 x 1GbE RJ-45/SFP ports
— Console and USB ports

SSR120 LTE Variants (SSR120-AA and SSR120-AE)

The SSR120 LTE variants (SSR120-AA and SSR130-AE) have antenna connectors for LTE.

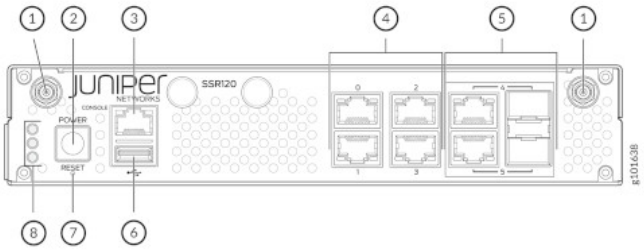

Figure 5. Front panel components of SSR120-AA and SSR120-AE

SSR120-AA and SSR120-AE front panel components

1. Antenna connectors for LTE

2. Power button

3. Console port

4. 1GbE Ethernet ports (0 through 3)

5. 1GbE RJ-45/SFP ports (4 & 5)

6. USB 3.0 port

7. Reset button

8. Chassis LEDs

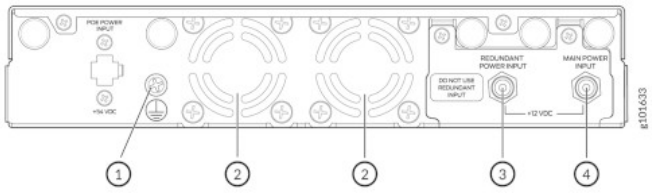

Figure 6. Rear panel components of SSR120

SSR120 rear panel components

1. Ground terminal

2. Fan

3. Redundant power input (unsupported: do not use)

4. Main power input

HPE Networking Session Smart Router SSR130: medium branch solution

Figure 7. The SSR130 is ideal for medium branches

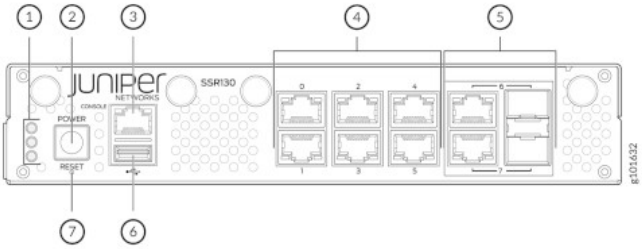

Figure 8. Front panel components of SSR130

SSR130 front panel components

1. Chassis LEDs

2. Power button

3. Console port

4. 1GbE Ethernet ports (0 through 5)

5. 1GbE RJ-45/SFP ports (6 & 7)

6. USB 3.0 port

7. Reset button

The SSR130 supports:

— 6 x 1GbE RJ-45 ports
— 2 x 1GbE RJ-45/SFP ports
— Console and USB ports

SSR130 LTE variants (SSR130-AA and SSR130-AE)

The SSR130 LTE variants (SSR130-AA and SSR130-AE) have antenna connectors for LTE.

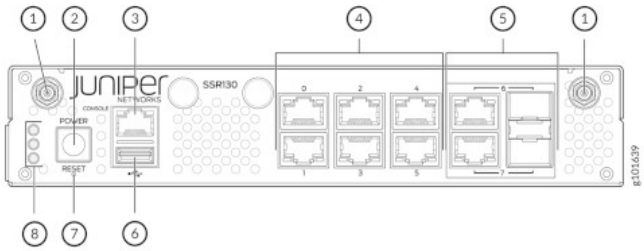

Figure 9. Front panel components of SSR130-AA and SSR130-AE

SSR130-AA router and SSR130-AE front panel components

1. Antenna connectors for LTE

2. Power button

3. Console port

4. 1GbE Ethernet ports (0 through 5)

5. 1GbE RJ-45/SFP ports (6 & 7)

6. USB 3.0 port

7. Reset button

8. Chassis LEDs

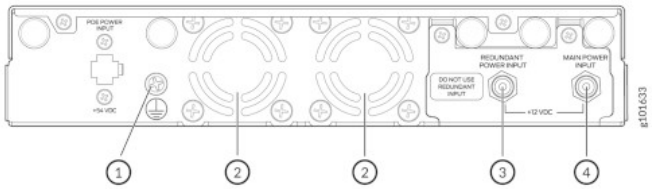

Figure 10. Rear panel components of SSR130

SSR130 rear panel components

1. Ground terminal

2. Fans

3. Redundant power input (unsupported – do not use)

4. Main power input

Features and benefits

Zero trust security

The HPE Networking Session Smart Router SSR100 Series ensures zero trust security by authenticating routes and encrypting session traffic. Applications, devices, and users cannot initiate any session that does not comply with the authentication policies and access rules. These appliances support Layer 2 through Layer 5 stateful firewall functions, including denial of service (DoS) and distributed denial of service (DDoS) protection, network address translation (NAT), encryption, VPN, and traffic filtering.

Adaptive encryption

The SSR100 series automatically detects traffic encrypted using HTTPS or IPsec and does not re-encrypt such traffic. This capability results in improved performance and reduced overhead because double encryption is avoided.

Simplified onboarding and monitoring with HPE Mist Networking WAN Assurance

You can quickly onboard SSR100 appliances to HPE Mist using the claim code or QR code on the device. This helps reduce operational complexity and simplifies the deployment and configuration process. For more information regarding onboarding, configuration, and management of HPE Networking Session Smart Routers, see the HPE Mist Networking WAN Assurance data sheet.

Table 1. SSR120 and SSR130 specifications

Specification		SSR120	SSR130
Performance (as observed on HPE Networking Session Smart Router software v5)			
Encrypted + HMAC (aggregate)	(IMIX)	250 Mbps	1 Gbps
	(1500 Bytes)	500 Mbps	1.8 Gbps
Encrypted only (aggregate)	(IMIX)	750 Mbps	1.8 Gbps
	(1500 Bytes)	2 Gbps (line rate on ports)	2 Gbps (line rate on ports)
Unencrypted (aggregate)	(IMIX)	1.5 Gbps	2 Gbps (line rate on ports)
	(1500 Bytes)	2 Gbps (line rate on ports)	2 Gbps (line rate on ports)

Table 1. SSR120 and SSR130 specifications (continued)

Specification	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 USB 3.0	1 x USB3.0
PoE+ ports	Not supported	Not supported

Table 2. Memory and storage; dimensions and power

Specification	SSR120 for small branches	SSR130 for medium-sized branches
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)	222 x 241 x 44 mm (8.74 x 9.48 x 1.73 in)	
Weight	1.67 Kg (3.68 lb)	
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)	32.5W	41.5W
Acoustic noise level	19.5 dBA (normal traffic conditions and ambient temperature 27°C)	23.4 dBA (normal traffic conditions and ambient temperature 27°C)
Power cord	Available for all homologated countries	Available for all homologated countries

Table 3. Environmental parameters

Parameter	SSR120 for small branches	SSR130 for medium-sized branches
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 Session Smart Router software)	Level 1 (through Session Smart Router software)

Table 4. LTE model specifications

Specification	SSR120 for small branches	SSR130 for medium-sized branches
4G/LTE capabilities		
Modem	Sierra Wireless EM7455	Sierra Wireless EM7430
Geography	Americas and Europe, Middle East, and Africa	Asian Pacific (including Australia and New Zealand)
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)

Table 5. HPE Networking Session Smart Router SSR100 Series service options

Hardware SKU	Juniper Care next-day support	Juniper Care same-day support
SSR120 service options		
SSR120	SVC-ND-SSR120	SVC-SD-SSR120
SSR120-AE	SVC-ND-SSR120-AE (US and EMEA only)	SVC-SD-SSR120-AE (US and EMEA only)
SSR120-AA	SVC-ND-SSR120-AA (APAC only)	SVC-SD-SSR120-AA (APAC only)
SSR130 service options		
SSR130	SVC-ND-SSR130	SVC-SD-SSR130
SSR130-AE	SVC-ND-SSR130-AE (US and EMEA only)	SVC-SD-SSR130-AE (US and EMEA only)
SSR130-AA	SVC-ND-SSR130-AA (APAC only)	SVC-SD-SSR130-AA (APAC only)
SSR120-TAA service options		
SSR120-TAA	SVC-ND-SSR120-TAA	SVC-SD-SSR120-TAA
SSR120-AE-TAA	SVC-ND-SSR120-AET (US and EMEA only)	SVC-SD-SSR120-AET (US and EMEA only)
SSR130-TAA service options		
SSR130-TAA	SVC-ND-SSR130-TAA	SVC-SD-SSR130-TAA
SSR130-AE-TAA	SVC-ND-SSR130-AET (US and EMEA only)	SVC-SD-SSR130-AET (US and EMEA only)

Ordering information

Table 6. Ordering information

SKU	Description
SSR120: 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-AA: 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

Table 6. Ordering information (continued)

SKU	Description
HPE Networking Session Smart Router SSR130: 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, 6x1GbE 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: 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 HPE Networking Session Smart Router SSR100 Series
SSR100-PS	AC-DC power adapter for HPE Networking Session Smart Router SSR100 Series; excludes country-specific power cord
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 HPE

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