ASR-9001 Datasheet

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Overview

The Cisco ASR 9001 is a compact, high-capacity, provider-edge router that delivers 120 Gbps of nonblocking, full-duplex fabric capacity in a 2-rack-unit (2RU) form factor. Cisco ASR 9001 has an integrated route switch processor (RSP) and two modular bays, which support 1 Gigabit Ethernet, 10 Gigabit Ethernet, and 40 Gigabit Ethernet modular port adapters. The base chassis, **ASR-9001** has four integrated 10 Gigabit Ethernet enhanced Small Form-Factor Pluggable (SFP+) ports, a GPS input for Stratum 1 clocking, BITS ports, and management ports.

Quick Specs

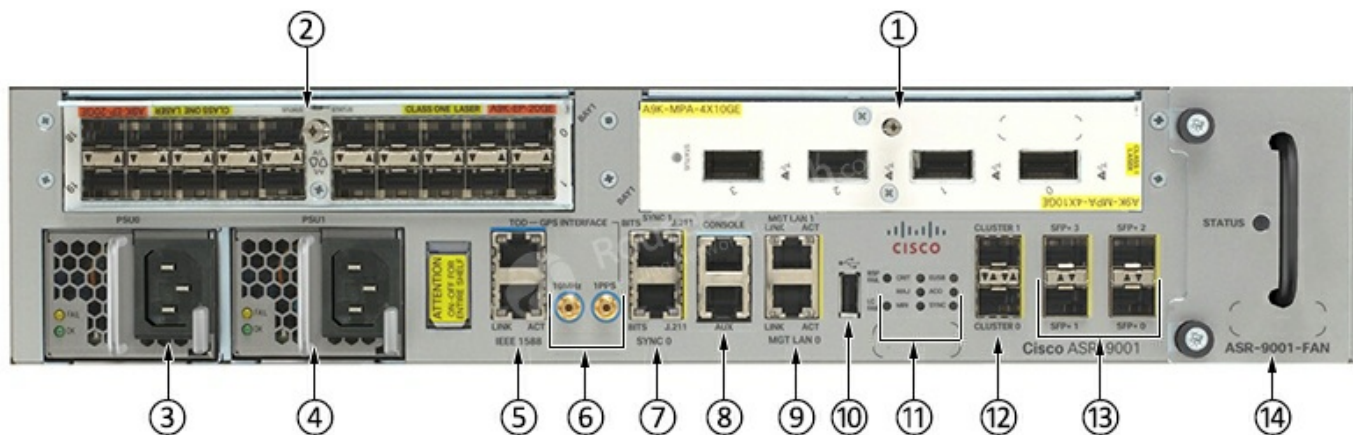**Figure 1 shows the appearance of ASR 9001 router. ASR-9001 is the chassis without these installed modules.**

Table 1 shows the quick spec of ASR 9001 router. ASR-9001 can deliver these spec when installed by the necessary modules.

Model	ASR 9001
Slots	Fixed 4x10GE 2 Modular Port Adapters
Rack Size	2 RU
Max Capacity	240 Gbps
Size (H x W x D)	3.5 in. x 17.5 in. x 18.5 in.
Power	AC or DC 425 W (typical), 525 W (max)
Fan	1 fan tray
Airflow	Side to Side
RSP / RP	Integrated
Fabric Architecture	Integrated
Software	IOS XR

Product Details

Figure 2 shows the front panel of ASR-9001 with installed modules. These modules must be purchased separately.

Notes:

(1)	4 x 10 GE Modular Port Adapter	(8)	CONSOLE and AUX ports
(2)	20 x GE Modular Port Adapter	(9)	Management LAN ports
(3)	Power Supply Slot	(10)	External USB port
(4)	Power Supply Slot	(11)	Eight discrete LED indicators
(5)	Service LAN and ToD ports	(12)	CLUSTER ports
(6)	10MHz and 1PPS ports	(13)	Fixed SFP+ ports
(7)	SYNC (BITS/J.211) ports	(14)	Fan Tray Slot

Figure 3 shows the back view of ASR 9001 router.

Configuration

Table 2 shows the recommended components.

Model	Description
A9K-MPA-20X1GE	Cisco ASR 9000 Series Router Modular Port Adapter A9K-MPA-20X1GE ASR 9000 20-port 1GE Modular Port Adapter
A9K-MPA-4X10GE	Cisco ASR 9000 Series Router Modular Port Adapter A9K-MPA-4X10GE ASR 9000 4-port 10GE Modular Port Adapter
A9K-750W-AC	Cisco ASR 9001 Power Supply A9K-750W-AC ASR 9000 Series 750W AC Power Supply for ASR-9001 Spare
A9K-750W-DC	Cisco ASR 9001 Power Supply A9K-750W-DC ASR 9000 750W DC Power Supply for ASR-9001 Spare
ASR-9001-FAN	Cisco ASR 9001 Fan ASR-9001-FAN ASR 9001 Fan Tray Spare

A9K-9001-AIP-LIC=	Cisco ASR 9001 License A9K-9001-AIP-LIC ASR 9001 AIP License
A9K-9001-OPT-LIC=	Cisco ASR 9001 License A9K-9001-OPT-LIC ASR 9001 Advanced Optical License
ASR-9001-2P-KIT	Cisco ASR 9001 Mounting Kit ASR-9001-2P-KIT ASR 9001 2 Post Mounting Kit
SFP-10G-SR	10GBASE-SR SFP Module
SFP-10G-ZR	10GBase-ZR Optical Transceiver, SFP+,10G,Single-mode Module(1550nm,80km,LC)
A9K-MPA-4X10GE	Cisco ASR 9000 Series Router Modular Port Adapter A9K-MPA-4X10GE ASR 9000 4-port 10GE Modular Port Adapter
A9K-MPA-20X1GE	Cisco ASR 9000 Series Router Modular Port Adapter A9K-MPA-20X1GE ASR 9000 20-port 1GE Modular Port Adapter

Compare to Similar Item

Table 3 shows the comparison between ASR-9001 and ASR-9006-AC-V2.

Model	ASR-9001	ASR-9006-AC-V2
Type	Cisco ASR-9001 Chassis	Cisco ASR-9006 AC Chassis PEM Version 2
Slots	2 Modular port adapters	4 Line Cards 2 RSPs
Rack Size	2 RU	10 RU

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Specification

ASR-9001 Specifications	
Type	Cisco ASR 9001 Chassis
Integrated interfaces	4 x 10 GE SFP+
Modular port adapters	20 x 1 GE, 2 x 10 GE, 4 x 10 GE, 1 x 40 GE
Redundancy	Power supply redundancy
Power supply part number	● A9K-750W-AC ● A9K-750W-DC
Physical specifications	● Height: 3.472 inches (88.2 mm) ● Width: 17.42 inches (442 mm) ● Depth: 18.5 inches (470 mm) ● Weight of chassis: 30.2032 lbs (13.7 kg) ● Weight of chassis with two MPAs: 36.37623 lbs (16.5 kg)
Power inputs	● Worldwide ranging AC (90-265V; 50-60 Hz) ● Worldwide ranging DC (-40V to -72V)
Power consumption	425 watts typical, 525 watts maximum
Environmental conditions	● Operating temperature: 32 to 104°F (0 to 40°C) ● Storage temperature: -40 to 167°F (-40 to 75°C) ● Relative humidity: 10 to 90%, noncondensing ● Regulatory compliance
Environmental Specifications	

Operating temperature (nominal)	41 to 104ºF (5 to 40ºC)
Operating temperature (short-term)	23 to 131ºF (-5 to 55ºC)
Operating humidity (nominal) (relative humidity)	10 to 85%
Operating humidity (short-term)	5 to 90% Note: Not to exceed 0.024 kg water or dry air
Storage temperature	-40 to 158ºF (-40 to 70ºC)
Storage (relative humidity)	5 to 95% Note: Not to exceed 0.024 kg water or dry air
Operating altitude	-1800m
Air flow	Side to side
Compliance	
Network Equipment Building Standards (NEBS)	Cisco ASR 9001 is designed to meet: ● SR-3580: NEBS Criteria Levels (Level 3) ● GR-1089-CORE: NEBS EMC and Safety ● GR-63-CORE: NEBS Physical Protection ● VZ.TPR.9205: Verizon TEEER
ETSI standards	Cisco ASR 9001 is designed to meet (qualification in progress): ● EN300 386: Telecommunications Network Equipment (EMC) ● ETSI 300 019 Storage Class 1.1 ● ETSI 300 019 Transportation Class 2.3 ● ETSI 300 019 Stationary Use Class 3.1 ● EN55022: Information Technology Equipment (Emissions) ● EN55024: Information Technology Equipment (Immunity) ● EN50082-1/EN-61000-6-1: Generic Immunity Standard
EMC standards	Cisco ASR 9001 is designed to meet: ● FCC Class A ● ICES 003 Class A ● AS/NZS 3548 Class A ● CISPR 22 (EN55022) Class A ● VCCI Class A ● BSMI Class A ● IEC/EN 61000-3-2: Power Line Harmonics ● IEC/EN 61000-3-3: Voltage Fluctuations and Flicker ● EN 50121-4: Railway EMC
Immunity	Cisco ASR 9001 is designed to meet: ● IEC/EN-61000-4-2: Electrostatic Discharge Immunity (8kV Contact, 15kV Air) ● IEC/EN-61000-4-3: Radiated Immunity (10V/m) ● IEC/EN-61000-4-4: Electrical Fast Transient Immunity (2kV Power, 1kV Signal) ● IEC/EN-61000-4-5: Surge AC Port (4kV CM, 2kV DM) ● IEC/EN-61000-4-5: Signal Ports (1kV) ● IEC/EN-61000-4-5: Surge DC Port (1kV) ● IEC/EN-61000-4-6: Immunity to Conducted Disturbances (10Vrms) ● IEC/EN-61000-4-8: Power Frequency Magnetic Field Immunity (30A/m) ● IEC/EN-61000-4-11: Voltage DIPS, Short Interruptions, and Voltage Variations ● EN 50121-4: Railway EMC
Safety	Cisco ASR 9001 is designed to meet: ● UL/CSA/IEC/EN 60950-1 ● IEC/EN 60825 Laser Safety ● ACA TS001 ● AS/NZS 60950 ● FDA: Code of Federal Regulations Laser Safety

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