ASR1001X-10G-K9 Datasheet

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Overview

The Cisco ASR1001X-10G-K9 Router is a 1-rack-unit (1RU) platform targeted towards the low to medium Enterprise and Managed Service Provider use cases. Its compact form factor has a built-in Route Processor, Embedded Services Processor (ESP) and Shared Port Adapter (SIP) Interface processor.

Quick Specs
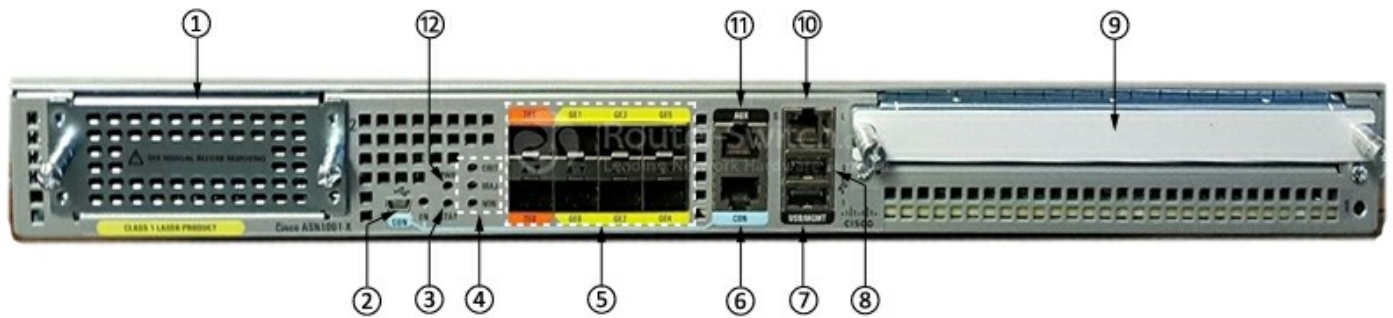
Figure 1 shows the appearance of ASR1001X-10G-K9.

Table 1 shows the Quick Specs.

Product Code	ASR1001X-10G-K9
Rack Height	1RU
System Bandwidth	2.5G (default) / 5G, 10G, 20G (upgrade)
Router Processor (RP)	Quad-core 2.13Ghz processor
Build-in Gigabit Ethernet port	6 x SFP ports, 2 x SFP+ ports
Redundancy	Software (license purchase separately)
SIP and Ethernet line card	Integrated in chassis; not upgradable
Embedded hardware-based encryption	up to 8-Gbps crypto support throughput
Rack-mounting	19-inch
DRAM Memory	4 GB
Flash Memory	8 GB
Shared port adapters	1 SPA slot
External USB flash memory	1-GB USB flash-memory support

Product Details

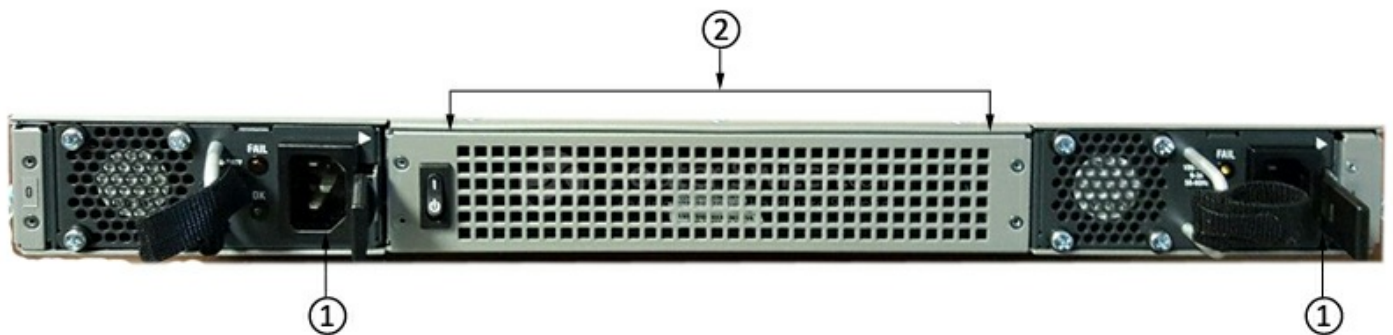**Figure 2 shows the front panel of ASR1001X-10G-K9.**

Note:

(1)	NIM slots	(7)	USB port 1
(2)	CON—One mini eUSB por	(8)	USB port 0
(3)	STAT—Status LED	(9)	Shared port adapter slot
(4)	CRIT LED—Critical alarm indicator MAJ LED—Major alarm indicator MIN LED—Minor alarm indicator	(10)	MGMT—One RJ-45 10/100/1000 management Ethernet port.
(5)	6 x SFP ports, 2 x SFP+ ports	(11)	AUX—One RJ-45/RS-232 compatible auxiliary port
(6)	CON—One RJ-45/RS-232 compatible console port	(12)	PWR—Power LED

*Six built-in 1 GE SFP-only interfaces (do not support SFP+), and two built-in 10 GE SFP+ interfaces (support only 10-GE rate)

Figure 3 shows the back panel of ASR1001X-10G-K9.

Note:

(1)	Two power supplies, either two AC power supplies or two DC power supplies are accessed from the rear of the router and are hot-swappable.
(2)	Four internal fans draw cooling air into the chassis and across internal components to maintain an acceptable operating temperature.

The Configuration

The ASR1001X-10G-K9 should be configured with some accessories for normal operation.

Table 2 shows the recommended configuration.

Model	Description
Card	
SPA-5X1GE-V2	Cisco 5-Port Gigabit Ethernet Shared Port Adapter
License	
FLASR1-CUBEE-100R	Unified Border Element Ent, 100 Sessions, Redundancy
FLASR1-CUBEE-100P	Unified Border Element - Enterprise Edition 100 Sessions
FLASR1-CUBEE-4KP	Unified Border Element - Enterprise Edition 4000 Sessions
FLASR1-CUBEE-4K-R	Unified Border Element Ent, 4000 Sessions, Redundancy

Compare to Similar Items

Table 3 shows the comparison between ASR1001X-10G-K9 and ASR1001.

Models	ASR1001X-10G-K9	ASR1001
Scalability	2.5 to 20 Gbps	2.5 to 5 Gbps
Rack Height	1U	1U
SFP Ports	6 x 1 G	4 x 1G
SPA slots	1	1
SIP Slots	Integrated	Integrated
ESP Slots	Integrated	Integrated
RP Slots	Integrated	Integrated

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Specification

ASR1001X-10G-K9 Specifications	
Physical specifications Note: Depth applies to chassis edge-to-edge dimension and does not include protrusions such as card handles, power-supply handles, and cable management brackets. Refer to the applicable hardware installation guide for additional details.	Height: 1.71 in. (43.43 mm) Width: 17.3 in. (439.42 mm) Depth: 18.17 in. (461.5 mm) Weight: ● 25 lb (11.35 kg) fully loaded Note: The Cisco ASR 1001-X Router has the route processor, ESP, and SIP integrated.
Default memory	8-GB DRAM shared across route processor, ESP, and SIP
Number of SIPs or Ethernet line cards supported	Integrated in chassis
Shared port adapters	1 single-height SPA slot
Ethernet port adapters	N/A
Cisco ASR 1000 Series ESP	Integrated in chassis

Route processor	Integrated in the chassis: Cisco ASR 1001-X Series Route Processor with Quad Core Processor
Redundancy	Software: Yes
Built-in Gigabit Ethernet ports	Yes: 6 Gigabit Ethernet Small Form-Factor Pluggable (SFP) ports
Built-in 10 Gigabit Ethernet port	Yes: Two 10 Gigabit Ethernet Small Form-Factor Plus Pluggable (SFP+) ports Note:Built-in 10-GB ports cannot be reduced to 1-GB speed.
Network interface module	Yes
Cisco ASR 1000 Series	Cisco ASR 1001-X
ESP support	Cisco ASR 1000 Series 2.5-Gbps ESP (default) Upgradable through a software-activated feature license to 5, 10, or 20 Gbps
ESP bandwidth	2.5 to 20 Gbps
ESP memory	Share the same control memory on route processor
SIPs and Ethernet line cards	Integrated in chassis; not upgradable
Embedded hardware-based encryption	Yes: Up to 8-Gbps crypto support throughput
Minimum Cisco IOS XE Software release	Cisco IOS XE Software Release 3.12.0
Rack-mounting	Yes: 19-inch
Wall-mounting	No
External USB flash memory	1-GB USB flash-memory support
Redundant power supply	Yes: Dual power supplies by default; option of either AC or DC power supply Note: A mix of one AC and one DC power supply is not supported.
Power input	Worldwide ranging AC input range (85 to 264 VAC) Worldwide ranging DC (-40 to -72V; 48V nominal)
Power consumption	● Maximum (DC): 242W ● Maximum (AC): 250W ● Maximum (out): 250W
Airflow	Front-to-back
Operating temperature (nominal)	32 to 104°F (0 to 40°C)
Operating temperature (short-term)	32 to 122°F (0 to 50°C)
Operating humidity (nominal) (relative humidity)	10 to 85%
Operating humidity (short-term)	5 to 90%
Storage temperature	-40 to 150°F (-40 to 70°C)
Storage humidity (relative humidity)	5 to 95%
Operating altitude	-500 to 10,000 feet (152 to 3048 meters)

Network Equipment Building Standards (NEBS)	GR-1089 and GR-63 (in progress)
EMC standards	● FCC 47 CFR Part 15 Class A ● VCCI Class A ● AS/NSZ Class A ● ICES-003 Class A ● EN55022/CISPR 22 Information Technology Equipment (Emissions) ● EN55024/CISPR 24 Information Technology Equipment (Immunity) ● EN300 386 Telecommunications Network Equipment ● (EMC) ● EN50082-1/EN61000-6-1 Generic Immunity Standard
Safety Standard	UL60950-1 CSA C22.2 No. 60950-1-03 EN 60950-1 IEC 60950-1 AS/NZS 60950.1

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