ASR1001-X Datasheet

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Overview

Cisco ASR 1000-X is designed for high-end enterprise, data center, service provider edging network in order to handle explosive traffic through the network. It supports only software redundancy, and it is based on a Quad-core 2.13GHz processor with 4GB memory, 8GB flash memory, 1 SPA bay, SPA interface processor 10 (SIP10).

This ASR1001-X is similar with the ASR1001-X=. The ASR1001-X= is a spare one.

Quick Specs

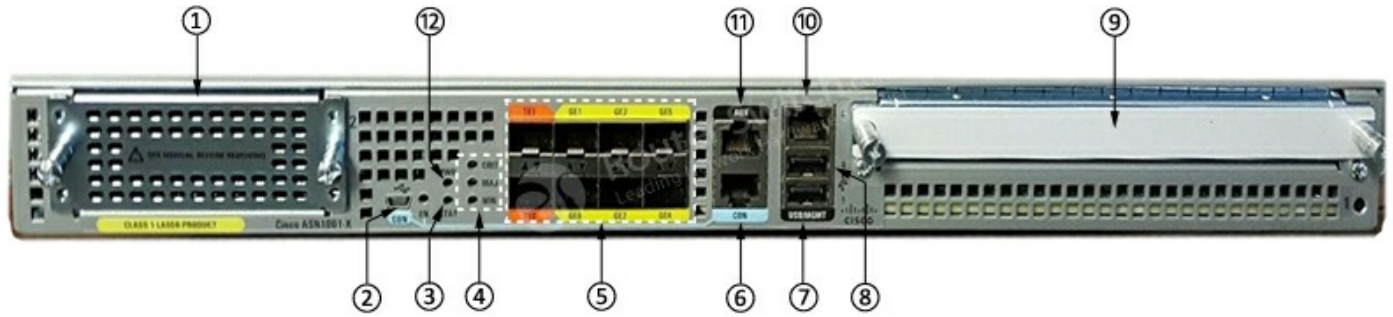**Figure 1 shows the appearance of the Cisco ASR 1001-X.**

Table 1 shows the Quick Specs.

Product Code	Cisco ASR 1001-X
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	8 GB
Flash Memory	8 GB
Shared port adapters	1 SPA slot
External USB flash memory	1-GB USB flash-memory support

Product Details

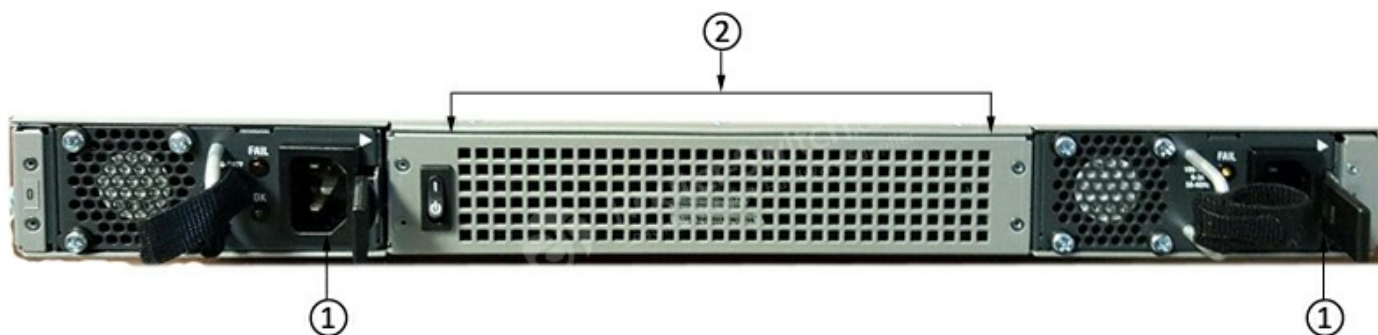**Figure 2 shows the front panel of Cisco ASR 1001-X.**

Note:

(1) NIM slots

(2) CON—One mini eUSB por

(3) STAT—Status LED

(4) CRIT LED—Critical alarm indicator; MAJ LED—Major alarm indicator; MIN LED—Minor alarm indicator

(5) 6 x SFP ports, 2 x SFP+ ports

(6) CON—One RJ-45/RS-232 compatible console port

(7) USB port 1

(8) USB port 0

(9) Shared port adapter slot

(10) MGMT—One RJ-45 10/100/1000 management Ethernet port.

(11) AUX—One RJ-45/RS-232 compatible auxiliary 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)

Table 2 shows some LEDs' Descriptions.

LEDs	Color	Description
PWR (Power)	Solid green	All power requirements are within specification.
	Off	The router is in standby mode.
STAT (System Status)	Solid green	Cisco IOSD and other required processes have loaded successfully and are operating.
	Yellow	ROMMON is running (including a permanent failure of RP software) or the Process Manager has declared a critical RP process (including IOSD) dead. A user can log in to recover.
	Red	Occurs during system failure or power-up.
CRIT (Critical)	Solid Red	Functions as a critical alarm indicator. The LED is lso a solid red during the boot process.
MAJ (Major)	Solid Red	Major alarm indicator.
MIN (Minor)	Amber	Minor alarm indicator.

Figure 3 shows the back panel of ASR1001-X.

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 ASR1001-X should be configured with some modules and accessories for normal operation.

Table 3 shows the recommended configuration.

Items	Quantity	Descriptions
ASR1001-X-PWR-AC	2	Cisco ASR1001-X AC Power Supply
CAB-L620P-C13-US	2	Power Cord, 250VAC, 15A, NEMA L6-20 to C13, US
SASR1K1XU-313S	1	Cisco ASR1001-X IOS XE UNIVERSAL – NO ENCRYPTION
NIM-BLANK	1	Blank faceplate for NIM slot on Cisco ISR 4400
SPA-BLANK	1	Blank Cover for regular SPA
M-ASR1001X-8GB	1	Cisco ASR1001-X 8GB DRAM
ASR1K-OTHER	1	ASE1K-other applications for Enterprise or SP-Tracking only
L-SLASR1-IPB=	1	Cisco ASR1001 License L-SLASR1-IPB= Cisco ASR 1000 IP BASE E-Delivery PAK

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Specification

ASR1001-X 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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