

ASR1002-X Datasheet

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Overview

Cisco ASR 1002-X router is delivered into 2 rack unit chassis, the route processor for control plane embedded the services processor for data plane traffic as well as the carrier card which is designed to house I/O modules, share port adapters all integrated in the chassis. ASR 1002-X router comes with 6 build-in SFP ports and 3 box slots for I/O connectivity. The integrated embedded service processors offer 4 levels of system performance: 5Gbps which is default, 10, 20, 36Gbps all through software license upgrade without need for any additional hardware. The integrated the route processor comes by default with 4Gb DRAM, upgradeable to 8, 16Gb.

This ASR1002-X is similar with the ASR1002-X=. The ASR1002-X= is a spare one.

Quick Specs

Figure 1 shows the appearance of the Cisco ASR 1002-X.



Table 1 shows the Quick Specs.

Product Code	Cisco ASR 1002-X
Rack Height	2RU
System Bandwidth	5G (default) / 10G, 20G,36G (upgrade)
Router Processor (RP)	Dual-core 2.13Ghz processor
Build-in Gigabit Ethernet port	6 x SFP ports
Redundancy	Software (license purchase separately)
Cisco ASR 1000 Series ESP	1 ESP slot
SIP and Ethernet line card	Integrated ASR 1000-SIP10, not upgradable
Rack-mounting	19-inch
DRAM Memory	4GB-shared across RP, ESP, and SIP
Flash Memory	8 GB
Shared port adapters	3 SPA slots
External USB flash memory	4-GB USB flash-memory support

Product Details

Figure 2 shows the front panel of Cisco ASR 1002-X.



Notes:

(1) Built-in 6x1GE SPA in slot 0

(2) SPA slot 1

(3) SPA slot 3

(4) SPA slot 2

Figure 3 shows the back panel of ASR1002-X with AC power supply.



· ASR1002-X also support DC power supply but the rear panel is different.

· **Caution!** Use only AC power supplies or DC power supplies in the Cisco ASR 1002-X Router. Do not mix power supply types.

The Configuration

The ASR1002-X should be configured with some modules and accessories for normal operation.

Table 2 shows the recommended configuration.

Items	Quantity	Descriptions
ASR1K-BB	1	ASR1K-BNG/LNS – tracking only
L-SLASR1-IPB=	1	Cisco ASR 1000 IP BASE License
M-ASR1002X-4GB	1	Cisco ASR 1002-X 4GB DRAM
SASR1K2XU-313S	1	Cisco ASR 1002-X IOS XE UNIVERSAL – NO ENCRYPTION
ASR1002-PWR-AC	2	Cisco ASR1002 AC Power Supply
CAB-AC-RA	2	Power Cord, 110V, Right Angle

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Specification

ASR1002-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: 3.5 in. (88.9 mm) Width: 17.2 in. (437.4 mm) Depth: 18.15 in. (461.0 mm) Weight: <ul style="list-style-type: none">● 38.25 lb (17.36 kg) (with dual AC power supply and SPA blank covers)● 39.05 lb (17.72 kg) (with dual DC power supply and blank covers)● No SPAs included Note: The Cisco ASR 1002-X has the route processor, ESP, and SIP integrated.
Default memory	4-GB DRAM shared across route processor, ESP, and SIP
Number of SIPs or Ethernet line cards supported	Integrated in chassis
Shared port adapters	3 SPA slots
Ethernet port adapters	N/A
Cisco ASR 1000 Series ESP	Integrated in chassis
Route processor	Integrated in the chassis: Cisco ASR 1002-X Series Route Processor with Quad Core Processor
Redundancy	Software: Yes
Built-in Gigabit Ethernet ports	Yes: 6 Gigabit Ethernet SFP ports
Built-in 10 Gigabit Ethernet port	No
Network interface module	No
Cisco ASR 1000 Series	Cisco ASR 1002-X
ESP support	Cisco ASR 1002-X ESP with 5-Gbps (default) Upgradable through software-activated feature license to 10, 20, or 36 Gbps
ESP bandwidth	5 to 36 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 4-Gbps crypto support throughput
Minimum Cisco IOS XE Software release	Cisco IOS XE Software Release 3.7.0S
Rack-mounting	Yes: 19-inch
Wall-mounting	No
External USB flash memory	1-GB USB flash-memory support
Redundant power supply	Same as for Cisco ASR 1002
Power input	Same as for Cisco ASR 1002

Power consumption	<ul style="list-style-type: none"> ● Maximum (DC): 590W ● Maximum (AC): 560W ● Maximum (out): 470W
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
EMC standards	Same as for Cisco ASR 1001-X
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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