

Overview

ASR1006-X is a Cisco ASR1006-X Chassis. The Cisco ASR 1006-X Router in a 6-rack unit (RU) form factor is providing the most flexible edge routing solution in the Cisco ASR 1000 Series. It supports: dual routing processors, embedded services processor, up to 100 Gbps throughput, up to 8 shared port adapters (SPAs), and the highest port density solution of the three Cisco ASR 1000 Routers.

Quick Spec

Table 1 shows the quick spec.

Part Number	ASR1006-X
Route Processor	2 route-processor slots
Cisco ASR 1000 Series ESP	2 ESP slots
Ethernet Port Adapters	4 EPA slots
Shared Port Adapters	8 SPA slots
Number of SIPs or Ethernet line cards supported	2
Default Memory	8-GB DRAM RP2 8-GB DRAM RP3
Dimension	Height: 10.47 in. (265.9 mm) Width: 17.2 in. (437.4 mm) Depth: 18.15 in. (461.0 mm)
Weight	36.5 lb empty

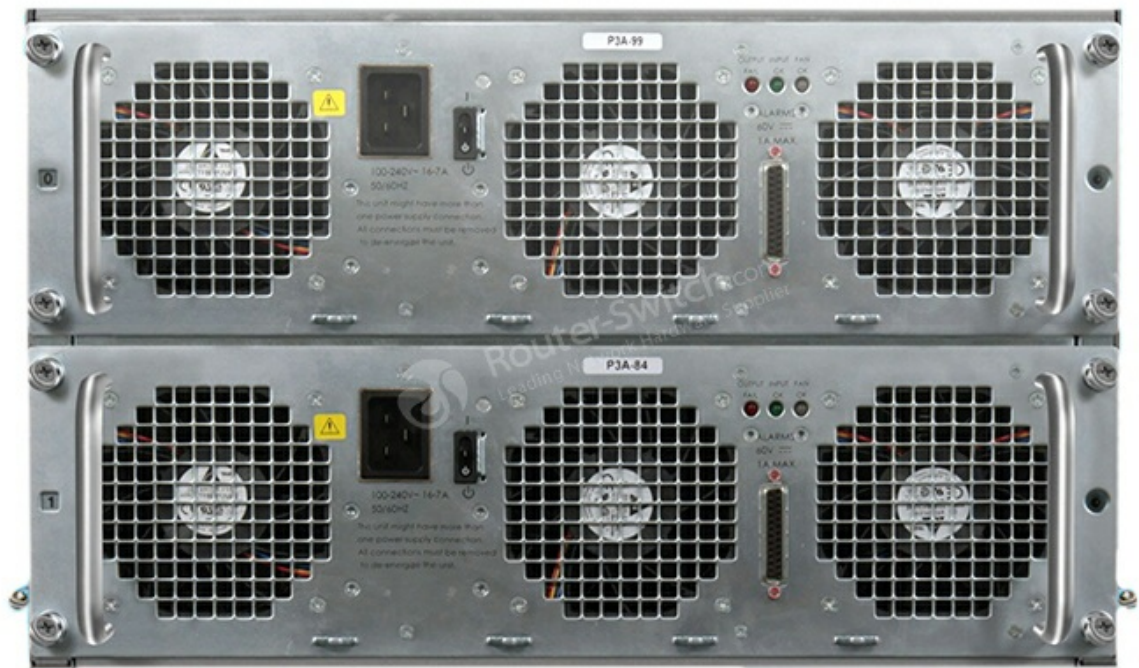
Product Details

Figure 1 shows the appearance of ASR1006-X. It's only a chassis. Those modules need to be purchased separately.



Figure 2 shows the back view of ASR1006-X.

The Cisco ASR 1006-X Router can support up to six AC or six DC power supplies. The chassis does not support mixed AC and DC configuration.



The Modules, Cards and Accessories

Table 2 shows the recommended modules, cards and accessories of ASR1006-X.

Model	Description
Card	
ASR1000-RP2	Cisco ASR1000 Route Processor 2, 8GB DRAM
ASR1000-RP3	Cisco ASR1000 Route Processor 3
ASR1000-SIP40	Cisco ASR1000 SPA Interface Processor 40
License	
FLASR1-SBC-16K	Cisco ASR 1000 License FLASR1-SBC-16K
FLASR1-CUBEE-100R	Cisco ASR 1000 License FLASR1-CUBEE-100R
FLASR1-IPB-AESK9	Cisco ASR 1000 Upgrade License FLASR1-IPB-AESK9
Embedded Services Processor	
ASR1000-ESP100=	Cisco ASR1000 Embedded Services Processor, 100G
ASR1000-ESP40	Cisco ASR1000 Embedded Services Processor, 40G

Compare to Similar Item

Table 3 shows the comparison.

Models	ASR1006-X	ASR1001-X
Rack Height	6U	1U
SFP Ports	N/A	6 x 1 G
SPA slots	8	1
ESP Slots	2	Integrated
RP Slots	2	Integrated

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Specification

ASR 1006-X Specification	
Dimension	Height: 10.47 in. (265.9 mm) Width: 17.2 in. (437.4 mm) Depth: 18.15 in. (461.0 mm)
Default memory	8-GB DRAM RP2 8-GB DRAM RP3
Number of SIPs or Ethernet line cards supported	2
Shared port adapters	8 SPA slots
Ethernet port adapters	4 EPA slots
Cisco ASR 1000 Series ESP	2 ESP slots
Route processor	2 route-processor slots
Redundancy	Hardware: Yes
Built-in Gigabit Ethernet ports	0
Built-in 10 Gigabit Ethernet port	No
Network interface module	No
ESP support	Cisco ASR 1000 Series 40-Gbps ESP (ASR1000-ESP40) and Cisco ASR 1000 Series 100-Gbps ESP (ASR1000-ESP100)
ESP bandwidth	40 to 100 Gbps
ESP memory	Cisco ASR 1000 Series 40-Gbps ESP (ASR1000-ESP40): 8-GB DRAM Cisco ASR 1000 Series 100-Gbps ESP (ASR1000-ESP100): 16-GB DRAM
SIPs and Ethernet line cards	Supports Cisco ASR 1000 Series 40-Gbps SIP Carrier Card (ASR1000-SIP40), Cisco ASR1000 Series MIP 100-Gbps Carrier Card (ASR1000-MIP100), and ASR 1000 Fixed Ethernet Line Card; two 10 GE + twenty 1 GE line cards (ASR1000-2T+20X1GE); and six 10 GE line cards (ASR1000-6TGE)
Embedded hardware-based encryption	Yes: On Cisco ASR 1000 Series 40-Gbps ESP (ASR1000-ESP40) with up to 11-Gbps crypto support throughput and Cisco ASR 1000 Series 100-Gbps ESP (ASR1000-ESP100) with up to 29-Gbps crypto support throughput
Minimum Cisco IOS XE Software release	Cisco IOS XE Software Release 3.16.0
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, expandable up to a total of six, depending on configuration and redundancy preferences; option of either 1100W AC or 950W DC Note: A mix of AC and DC power supplies is not supported.
Power input	Worldwide ranging AC input range (85 to 264 VAC) Worldwide ranging DC (-40 to -72; -48V nominal)
Power consumption	- Maximum (DC): 4600W - Maximum (AC): 4500W

Airflow	Front-to-back
Operating temperature (nominal)	Same as for Cisco ASR 1001-X
Operating temperature (short-term)	Same as for Cisco ASR 1001-X
Operating humidity (nominal) (relative humidity)	Same as for Cisco ASR 1001-X
Operating humidity (short-term)	Same as for Cisco ASR 1001-X
Storage temperature	Same as for Cisco ASR 1001-X
Storage humidity (relative humidity)	Same as for Cisco ASR 1001-X
Operating altitude	Same as for Cisco ASR 1001-X
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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