C1-ASR1004/K9 Datasheet

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Overview

C1-ASR1004/K9 is the ASR1004 with Cisco ONE Software. Cisco ONE Software suites provide a cost-effective and flexible way for you to acquire software for your data center, routing, switching, and wireless needs.

Quick Specs

Figure 1 shows the appearance of C1-ASR1004/K9.

Table 1 shows the Quick Specs.

Models	C1-ASR1004/K9
Scalability	10 to 40 Gbps
Targeted for	Enterprise WAN or Internet edge, service provider
Rack Height	4U
Shared port adapters	8
Embedded services processor slots	1
Route processor slots	1
Number of SPA interface processors (SIPs) supported	2

Redundancy	Yes: Software
Dimension (**H** x **W** x **D**)	177.8 x 437.4 x 461.0 mm

The System Level Components

Table 2 shows the components should be purchased seperately.

Components	Models	Details
SPA Interface Processor	Cisco ASR1000-SIP10	Cisco ASR1000 Series SPA Interface Processor 10G
	Cisco ASR1000-SIP40	Cisco ASR1000 Series SPA Interface Processor 40G
Embedded Services Processor	Cisco ASR 1000-ESP10	Cisco ASR 1000 Processor ASR1000-ESP10
	Cisco ASR 1000-ESP20	Cisco ASR 1000 Processor ASR1000-ESP20
	Cisco ASR1000-ESP40	Cisco ASR 1000 Processor ASR1000-ESP40
Route Processor	ASR1000-RP2	Cisco ASR 1000 Processor ASR1000-RP2

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Specification

C1-ASR1004/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: 7 in. (177.8 mm) Width: 17.2 in. (437.4 mm) Depth: 18.15 in. (461.0 mm) Weight: ● 68.7 lb (31.16 kg) (with dual AC power supply, SPA blank covers, Cisco ASR 1000 Series 10-Gbps ESP [ASR1000-ESP10] or ASR 1000 Series 40-Gbps ESP [ASR1000-ESP-40], Cisco ASR 1000 Series Route Processor 1 [RP1] [ASR1000-RP1], two Cisco ASR 1000 Series 10-Gbps SIPs [ASR1000-SIP10] or ASR1000 Series 40-Gbps SIPs [ASR1000-SIP-40], and no SPAs)
Default memory	4-GB DRAM RP1 8-GB DRAM RP2
Number of SIPs or Ethernet line cards supported	2
Shared port adapters	8 SPA slots
Ethernet port adapters	N/A
Cisco ASR 1000 Series ESP	1 ESP slot
Route processor	1 route-processor slot
Redundancy	Software: Yes
Built-in Gigabit Ethernet ports	0
Built-in 10 Gigabit Ethernet port	No
Network interface module	No
Cisco ASR 1000 Series	Cisco ASR 1004

ESP support	Cisco ASR 1000 Series 10-Gbps ESP (ASR1000-ESP10), noncrypto Cisco ASR 1000 Series 10-Gbps ESP (ASR1000-ESP10-N), Cisco ASR 1000 Series 20-Gbps ESP (ASR1000-ESP20), and Cisco ASR 1000 Series 40-Gbps ESP (ASR1000-ESP40)
ESP bandwidth	10 to 40 Gbps
ESP memory	Cisco ASR 1000 Series 10-Gbps ESP (ASR1000-ESP10) and ASR 1000 Series 10-Gbps ESP (ASR1000-ESP10): 2-GB DRAM default; 2-GB DRAM maximum Cisco ASR 1000 Series 20-Gbps ESP (ASR1000-ESP20): 4-GB DRAM default; 4-GB DRAM maximum
SIPs and Ethernet line cards	Supports Cisco ASR 1000 Series 10-Gbps SIP Carrier Card (ASR1000-SIP10), Cisco ASR 1000 Series 40-Gbps SIP Carrier Card (ASR1000-SIP40), and ASR 1000 Fixed Ethernet Line Cards; 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 10-Gbps ESP (ASR1000-ESP10) with up to 4 Gbps and on Cisco ASR 1000 Series 20-Gbps ESP (ASR1000-ESP20) with up to 8-Gbps crypto support throughput Note: No support on noncrypto Cisco ASR 1000 Series 10-Gbps ESP (ASR1000-ESP10-N)
Minimum Cisco IOS XE Software release	Cisco IOS XE Software Release 2.1
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	● Maximum (DC): 1020W ● Maximum (AC): 960W ● Maximum (out): 765W
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	● 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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