

Overview

The Cisco® ASR 9000 Series Aggregation Services Routers (ASR 9000 Series) represent an exciting new paradigm in edge and core routing, with exceptional scalability, carrier-class reliability, environmentally conscious design, incredible flexibility, and an attractive price-to-performance benchmark. The Cisco ASR 9000 Series ASR-9010-AC-V2 also offers service and application-level intelligence focused on optimized video delivery and mobile aggregation. Finally, the Cisco ASR 9000 Series is designed to simplify and enhance the operational and deployment aspects of service-delivery networks.

Quick Spec

Figure 1 shows the appearance of ASR-9010-AC-V2. ASR-9010-AC-V2 doesn't include these installed components.



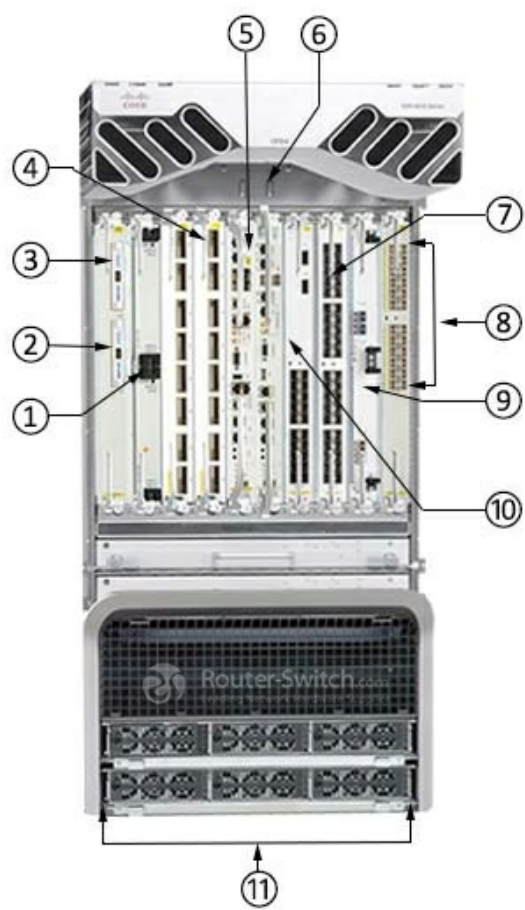
Table 1 shows the quick spec.

Model	ASR-9010-AC-V2
Description	Cisco ASR 9010 System ASR-9010-AC-V2 ASR 9010 AC Chassis with PEM Version 2
Slots	8 Line Cards 2 RSPs
Rack Size	21 RU
Bandwidth Per Slot	880 Gbps
Max Capacity	14 Tbps

Size (H x W x D)	36.75 in. x 17.5 in x 28.65 in
Power	AC: 6 kW or 3 kW power modules DC: 4.4 kW or 2.1 kW or 1.5 kW power modules Note: Mixing of AC and DC modules is not supported
Fan	2 fan trays
Airflow	Front to Back
RSP / RP	2 (1+1 RSP redundancy)
Fabric Architecture	1+1 fabric redundancy
Software	IOS XR

Product Details

Figure 2 shows the front panel of ASR 9010 Router. ASR-9010-AC-V2 doesn't include these components following.



Note:

(1)	Integrated Service Module
(2)	Uses CFP Optics
(3)	2×100GE Ethernet Line Card
(4)	8-Port 100GE Module
(5)	RSP-880
(6)	8 customer facing line card spots

(7)	40×GE Ethernet Line Card
(8)	24×10GE Ethernet Line Card
(9)	SIP-700 Module Line Card
(10)	RSP-440 Route Switch Processor
(11)	AC or DC module power supplies

The Accessories

Table 2 shows the recommended elements for theASR-9010-AC-V2.

Product number	Description
ASR-9010-FAN	Cisco ASR 9010 FanASR-9010-FANASR-9010 Fan Tray
ASR-9010-FILTER	Cisco ASR 9010 Air FilterASR-9010-FILTERASR-9010 Air Filter
PWR-3KW-AC-V2	Cisco ASR 9000 Power Module PWR-3KW-AC-V2 3KW AC Power Module Version 2 for ASR-9006 & ASR-9010 Spare

Compare to Similar Items

Table 3 shows the comparison betweenASR-9010-AC-V2 and ASR-9006-DC.

Product Code	ASR-9010-AC-V2	ASR-9006-DC
Type	Cisco ASR-9010 AC Chassis	Cisco ASR-9006 DC Chassis
Slots	8 Line Cards 2 RSPs	4 Line Cards 2 RSPs
Rack Size	21 RU	10 RU
Max Capacity	14 Tbps	7 Tbps
Size (H x W x D)	36.75 in. x 17.5 in x 28.65 in	17.5 in. x 17.5 in. x 28.65 in.

Get more information

Do you have any question about the ASR-9010-AC-V2 router?

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Specification

ASR-9010-AC-V2 specifications	
Description	Cisco ASR 9010 System ASR-9010-AC-V2 ASR 9010 AC Chassis with PEM Version 2
Cisco ASR 9010 Specs	
Physical specifications	Height: 36.75 in. (933.45 mm) (21 RU) Width: 17.38 in. (441.45 mm) Depth: <ul style="list-style-type: none">● With doors: 29.03 in. (737.4 mm)● Without doors: 28.24 in. (717.3 mm) Weight: <ul style="list-style-type: none">● 155.6 lb (70.73 kg) (chassis with PEM) 231.6 lb (105.27 kg) (fully loaded, excluding linecards and power modules) – RSP, two v2 fan trays, PEMs
Slot orientation	Vertical

Cisco ASR 9000 Series RSP	Dual redundant RSPs with integrated fabric in 2 slots
Cisco ASR 9000 Series line cards	8 line-card slots
“Commons” components	2 RSPs 2 fan trays 2 PEMs (either DC or AC) 1 fan filter
Reliability and availability	Fabric redundancy Fan redundancy Feed redundancy Power-supply redundancy RSP redundancy Software redundancy
Rack mounting	19-in. default 21- and 23-in. adapters available Note: Minimum 17.75-in. opening between posts is needed for proper operation
Cabinet mounting	Yes Note: Doors not recommended in enclosed cabinets
Wall mounting	No
Airflow	Front-to-back
Performance	
Fabric	One per RSP: <ul style="list-style-type: none"> ● Active/active nonblocking operation mode in dual-RSP redundant configuration ● Fully redundant in dual-RSP redundant configuration ● Built-in service-intelligence and traffic-prioritization capability
Thermal	Two fan trays: <ul style="list-style-type: none"> ● 12 high-efficiency fans per tray ● Variable-speed fans for optimal thermal performance ● No single point of failure
Modularity	Pay-as-you-grow power for future scalability, available in AC and DC. Multiple power module types: <ul style="list-style-type: none"> ● 6 kW and 3 kW AC power modules ● 4.4 kW and 2.1 kW DC power modules Note: Mixing of AC and DC modules is not supported
Redundancy	<ul style="list-style-type: none"> ● AC: N+N redundancy ● DC: N+1 redundancy ● Power module redundancy ● A/B Feed redundancy ● PEM redundancy
Power zones	No power zone restrictions Fully load-sharing power infrastructure
Power input	Worldwide ranging AC (200-240V; 50-60 Hz; 16A maximum) Worldwide ranging DC (-40 to -72V; 50A nominal, 60A maximum)
Power-module airflow	Front-to-back
Environmental Specifications	
Operating temperature (nominal)	41 to 104°F (5 to 40°C)
Operating temperature (short-term)	ASR 9006: 23 to 131°F (-5 to 55°C) ASR 9010: 23 to 122°F (-5 to 50°C)
Operating humidity (nominal) (relative humidity)	5 to 90%
Storage temperature	-40 to 158°F (-40 to 70°C)
Storage (relative humidity)	5 to 93%


Operating altitude	-60 to 4000m (up to 2000m conforms to IEC/EN/UL/CSA 60950 requirements)
Regulatory Compliance	
Network Equipment Building Standards (NEBS)	Cisco ASR 9010 Routers are designed to meet: <ul style="list-style-type: none"> ● SR-3580: NEBS Criteria Levels (Level 3) ● GR-1089-CORE: NEBS EMC and Safety ● GR-63-CORE: NEBS Physical Protection ● VZ.TPR.9205: Verizon TEEER
ETSI standards	Cisco ASR 9010 Routers are designed to meet: <ul style="list-style-type: none"> ● EN300 386: Telecommunications Network Equipment (EMC) ● ETSI 300 019 Storage Class 1.1 ● ETSI 300 019 Transportation Class 2.3 ● ETSI 300 019 Stationary Use Class 3.1
EMC standards emission	Cisco ASR 9010 Routers are designed to meet: <ul style="list-style-type: none"> ● FCC Class 47CFR15 A ● ICES 003 Class A ● AS/NZS CISRP22 Class A ● CISPR 22 (EN55022) Class A ● VCCI Class A ● BSMI Class A ● IEC/EN 61000-3-12: Power Line Harmonics ● IEC/EN 61000-3-11: Voltage Fluctuations and Flicker ● EN55022: Information Technology Equipment (Emissions) ● EN 50121-4: Railway EMC
EMC standards immunity	Cisco ASR 9010 Routers are designed to meet: <ul style="list-style-type: none"> ● IEC/EN-61000-4-2: Electrostatic Discharge Immunity (8kV Contact, 15kV Air) ● IEC/EN-61000-4-3: Radiated Immunity (10V/m) ● IEC/EN-61000-4-4: Electrical Fast Transient Immunity (2kV Power, 1kV Signal) ● IEC/EN-61000-4-5: Surge AC Port (4kV CM, 2kV DM) ● IEC/EN-61000-4-5: Signal Surge Ports (1kV) ● IEC/EN-61000-4-5: Surge DC Port (1kV CM, 1kV DM) ● IEC/EN-61000-4-6: Immunity to Conducted Disturbances (10Vrms) ● IEC/EN-61000-4-8: Power Frequency Magnetic Field Immunity (30A/m) ● IEC/EN-61000-4-11: Voltage DIPS, Short Interruptions, and Voltage Variations ● EN55024: Information Technology Equipment (Immunity) ● EN50082-1/EN-61000-6-1: Generic Immunity Standard ● EN 50121-4: Railway EMC
Safety	Cisco ASR 9010 Routers are designed to meet: <ul style="list-style-type: none"> ● UL/CSA/IEC/EN 60950-1 ● IEC/EN 60825 Laser Safety ● ACA TS001 ● AS/NZS 60950 ● FDA Code of Federal Regulations Laser Safety

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