

Refurbished CISCO ASR-9006-AC-SE-BUN Datasheet

CISCO > ROUTERS

Cisco ASR 9000 Series Aggregation Services Routers

Hardware Available for Cisco ASR 9000 & ASR 9900 Series

Cisco ASR 9000 & ASR 9900 Series Chassis	
Cisco ASR 9010 chassis	ASR-9010-AC-V2 ASR-9010-DC-V2 ASR-9010-SYS
Cisco ASR 9006 chassis	ASR-9006-AC-V2 ASR-9006-DC-V2 ASR-9006-SYS
Cisco ASR 9922 chassis	ASR-9922-AC ASR-9922-DC ASR-9922
Cisco ASR 9912 chassis	ASR-9912-AC ASR-9912-DC ASR-9912
Cisco ASR 9910 chassis	ASR-9910
Cisco ASR 9906 chassis	ASR-9906
Cisco ASR 9000 Series Power Infrastructure	
AC power supply, 6000W	PWR-6KW-AC-V3 PWR-6KW-AC-V3=
AC power entry module V3	A9K-AC-PEM-V3 A9K-AC-PEM-V3=
AC power supply, 3000W	PWR-3KW-AC-V2 PWR-3KW-AC-V2=
AC power entry module V2	ASR9K-AC-PEM-V2 A9K-AC-PEM-V2=
DC power supply, 4400W	PWR-4.4KW-DC-V3 PWR-4.4KW-DC-V3=
DC power entry module V3	A9K-DC-PEM-V3 A9K-DC-PEM-V3=
DC power supply, 2100W	PWR-2KW-DC-V2 PWR-2KW-DC-V2=
Cisco ASR 9000 Series Thermal Infrastructure	
Cisco ASR 9010 fan, 2 fan trays per chassis	ASR-9010-FAN ASR-9010-FAN-V2
Cisco ASR 9006 fan, 2 fan trays per chassis	ASR-9006-FAN ASR-9006-FAN-V2
Cisco ASR 9922 fan, 4 fan trays per chassis	ASR-9922-FAN ASR-9922-FAN-V2 ASR-9922-FAN-V3
Cisco ASR 9912 fan, 2 fan trays per chassis	ASR-9912-FAN A9K-9912-FAN
Cisco ASR 9910 fan, 2 fan trays per chassis	ASR-9910-FAN

Cisco ASR 9906 fan, 2 fan trays per chassis	ASR-9906-FAN
Cisco ASR 9904 fan, 1 fan tray per chassis	ASR-9904-FAN A9K-9904-FAN
Cisco ASR 9010 fan filter, 1 per chassis	ASR-9010-FILTER
Cisco ASR 9006 fan filter, 1 per chassis	ASR-9006-FILTER
Cisco ASR 9922 fan filter, 1 center and 2 side filters per chassis	ASR-9922-FLTR-CEN ASR-9922-FLTR-CV2 ASR-9922-FLTR-LR
Cisco ASR 9912 fan filter, 1 center and 2 side filters per chassis	ASR-9912-FLTR-CEN ASR-9900-FLTR-LR
Cisco ASR 9910 fan filter, 1 per chassis	ASR-9910-FILTER
Cisco ASR 9906 fan filter, 1 per chassis	ASR-9906-FILTER
Cisco ASR 9904 fan filter, 1 per chassis	ASR-9904-FILTER

Cisco ASR 9006 and ASR 9010

Environmental Specifications (All Entries Applicable to Cisco ASR 9006 and ASR 9010)

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%

Regulatory Compliance (All Entries Applicable to Cisco ASR 9006 and ASR 9010)

Network Equipment Building Standards (NEBS)	Cisco ASR 9006 and ASR 9010 Routers are designed to meet: 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 9006 and ASR 9010 Routers are designed to meet: 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 9006 and ASR 9010 Routers are designed to meet: 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 9006 and ASR 9010 Routers are designed to meet: 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 9006 and ASR 9010 Routers are designed to meet:

UL/CSA/IEC/EN 60950-1
IEC/EN 60825 Laser Safety
ACA TS001
AS/NZS 60950
FDA Code of Federal Regulations Laser Safety

Cisco ASR 9904

Categories

Physical specifications	Height: 10.38 in. (263.65x mm) (6 RU) Width: 17.57 in. (446.28 mm) Depth: 25.02 in. (635.51 mm) Weight: 62 lb (28.2 kg) (V2 PEM AND chassis) 114.05 lb (51.84 kg) (2 RSP, Fan Tray, PEM)
Slot orientation	Horizontal
Cisco ASR 9000 Series RSP	Dual redundant RSPs with integrated fabric in 2 slots
Fabric	-
Cisco ASR 9000 Series line cards	2 line-card slots
Commons" components	2 RSPs 1 fan tray 1 PEM (either DC or AC) 1 fan filter
Reliability and availability	Fabric redundancy Feed redundancy Power-supply redundancy Route processor redundancy Software redundancy
Rack mounting	19-in. 21- and 23-in. adapters available Note: Minimum 17.75-in. opening between posts is needed for proper operation.
Cabinet mounting	Yes
Wall mounting	No

Performance

Fabric	One per RSP: 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
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Power

Modularity	Pay-as-you-grow power for future scalability, available in AC and DC. Multiple power module types: 3 kW AC power module 2.1 kW DC power module Note: Mixing of AC and DC modules is not supported
Redundancy	AC: N+N redundancy DC: N+1 redundancy Power module redundancy A/B Feed 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)

Environmental Specifications

Operating temperature (nominal)	41 to 104°F (5 to 40°C)
Operating temperature (short-term)	23 to 131°F (-5 to 55°C) for ASR 9904 23 to 122°F (-5 to 50°C) for ASR 9910
Operating humidity (nominal) (relative humidity)	5 to 90%

Storage temperature	-40 to 158°F (-40 to 70°C)
Storage (relative humidity)	5 to 93%
Regulatory Compliance	
Network Equipment Building Standards (NEBS)	The Cisco ASR 9904 Router is designed to meet (qualification in progress): 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	The Cisco ASR 9904 Router is designed to meet (qualification in progress): 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	The Cisco ASR 9904 Router is designed to meet: 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	The Cisco ASR 9904 Router is designed to meet: 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	The Cisco ASR 9904 Router is designed to meet: UL/CSA/IEC/EN 60950-1 IEC/EN 60825 Laser Safety ACA TS001 AS/NZS 60950 FDA Code of Federal Regulations Laser Safety

Cisco ASR 9906 and ASR 9910

Environmental Specifications (All Entries Applicable to Cisco ASR 9906 and ASR 9910)

Operating temperature (nominal)	41 to 104°F (5 to 40°C)
Operating temperature (short term)	23 to 131°F (-5 to 55°C) for ASR 9906 23 to 122°F (-5 to 50°C) for ASR 9910
Operating humidity (nominal) (relative humidity)	5 to 90%
Storage temperature	-40 to 158°F (-40 to 70°C)
Storage (relative humidity)	5 to 93%

Regulatory Compliance (All Entries Applicable to Cisco ASR 9906 and ASR 9910)

Network Equipment Building Standards (NEBS)	Cisco ASR 9906 and ASR 9910 Routers are designed to meet (qualification in progress): 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 9906 and ASR 9910 Routers are designed to meet (qualification in progress): 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 9906 and ASR 9910 Routers are designed to meet: 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 9906 and ASR 9910 Routers are designed to meet: 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 9904 and ASR 9910 Routers are designed to meet: UL/CSA/IEC/EN 60950-1 IEC/EN 60825 Laser Safety ACA TS001 AS/NZS 60950 FDA Code of Federal Regulations Laser Safety

Cisco ASR 9912 and ASR 9922

Environmental Specifications (All Entries Applicable to Cisco ASR 9912 and ASR 9922)

Operating temperature (nominal)	41 to 104°F (5 to 40°C)
Operating temperature (short-term)	23 to 131°F (-5 to 55°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%

Regulatory Compliance (All Entries Applicable to Cisco ASR 9912 and ASR 9922)

Network Equipment Building Standards (NEBS)	Cisco ASR 9912 and ASR 9922 Routers are designed to meet: 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 9912 and ASR 9922 Routers are designed to meet: 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 9912 and ASR 9922 Routers are designed to meet: 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 9912 and ASR 9922 Routers are designed to meet: 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 9912 and ASR 9922 Routers are designed to meet:
UL/CSA/IEC/EN 60950-1
IEC/EN 60825 Laser Safety
ACA TS001
AS/NZS 60950
FDA Code of Federal Regulations Laser Safety

The next steps...

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