

Overview

Cisco ASR1002-HX System is one of the ASR 1000 Series routers, providing 4x10GE+4x1GE enabled ports upgradeable to 8xGE and 8x10GE with a license, 2x Power Supplies, and optional crypto.

Quick Spec

Figure 1 shows the appearance of ASR1002-HX=.



Table 1 shows the quick spec.

Part Number	ASR1002-HX=
Default memory	16-GB DRAM shared across route processor, ESP, and MIP
Number of SIPs or Ethernet line cards supported	Integrated in chassis
Ethernet port adapters	1 EPA slot
Cisco ASR 1000 Series ESP	Integrated in chassis
Route processor	Integrated in the chassis: Cisco ASR 1002-HX Series Route Processor
Redundancy	Software: Yes
Built-in Gigabit Ethernet ports	Yes: 8 Gigabit Ethernet SFP ports
Built-in 10 Gigabit Ethernet port	Yes: Eight 10 Gigabit Ethernet Small Form-Factor Plus Pluggable (SFP+) ports Note: Built-in 10-GB ports cannot be reduced to 1-GB speed.
Network interface module	Yes
Dimension	Height: 3.5 in. (88.9 mm) Width: 17.3 in. (439.4 mm) Depth: 19.25 in. (489.0 mm)

The Supported SFP Transceivers

Table 2 shows the recommended SFP and SFP+ of ASR1002-HX=.

Model	Description
GLC-SX-MMD	1000BASE-SX SFP transceiver module, MMF, 850nm, DOM

GLC-LH-SMD	1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM
SFP-GE-T	1000BASE-T SFP (NEBS 3 ESD)
GLC-BX-U	1000BASE-BX SFP, 1310nm
GLC-BX-D	1000BASE-BX SFP, 1490nm
GLC-TE	1000BASE-T SFP transceiver module for category 5 copper wire
GLC-SX-MM	GE SFP, LC connector SX transceiver
GLC-LH-SM	GE SFP, LC connector LX/LH transceiver
GLC-EX-SMD	GE SFP, LC Connector, EX transceiver
GLC-ZX-SMD	1000BASE-ZX SFP transceiver module, SMF, 1550nm, DOM
SFP-10G-SR	10GBASE-SR SFP+ Module for MMF
SFP-10G-SR-X=	10GBASE-SR SFP+ Module for Extended Temp range
SFP-10G-LR	10GBASE-LR SFP+ Module for SMF
SFP-H10GB-ACU7M	10GBASE-CU SFP+ Cable 7 Meter, active
SFP-H10GB-ACU10M	10GBASE-CU SFP+ Cable 10 Meter, active

Compare to Similar Item

Table 3 shows the comparison.

Models	ASR1002-HX=	ASR1001-X
Rack Height	2U	1U
SFP Ports	8 x 1 G	6 x 1 G
ESP Slots	Integrated	Integrated
RP Slots	Integrated	Integrated

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Specification

ASR 1002-HX= Specification	
Physical specifications	Height: 3.5 in. (88.9 mm) Width: 17.3 in. (439.4 mm) Depth: 19.25 in. (489.0 mm) Weight: <ul style="list-style-type: none"> • 34 lb (15.45 kg) (with dual AC power supplies) • 34 lb (15.45 kg) (with dual DC power supplies)
Default memory	16-GB DRAM shared across route processor, ESP, and MIP
Number of SIPs or Ethernet line cards supported	Integrated in chassis
Shared port adapters	N/A

Ethernet port adapters	1 EPA slot
Cisco ASR 1000 Series ESP	Integrated in chassis
Route processor	Integrated in the chassis: Cisco ASR 1002-HX Series Route Processor
Redundancy	Software: Yes
Built-in Gigabit Ethernet ports	Yes: 8 Gigabit Ethernet SFP ports
Built-in 10 Gigabit Ethernet port	Yes: Eight 10 Gigabit Ethernet Small Form-Factor Plus Pluggable (SFP+) ports Note: Built-in 10-GB ports cannot be reduced to 1-GB speed.
Network interface module	Yes
ESP support	Cisco ASR 1000 Series 100-Gbps ESP (ASR1000-ESP100) equivalent
ESP bandwidth	100 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 25-Gbps crypto support throughput
Minimum Cisco IOS XE Software release	Cisco IOS XE Software Release 16.2.1S
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; option of either AC or DC power supply Note: A mix of one AC and one DC power supply is not supported.
Power input	Worldwide ranging AC input range (85 to 264 VAC) Worldwide ranging DC (-40 to -72; -48V nominal)
Power consumption	<ul style="list-style-type: none"> • Maximum (DC): 500W • Maximum (AC): 500W
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

<p>EMC standards</p>	<p>Emissions</p> <ul style="list-style-type: none"> • FCC 47CFR15 Class A • AS/NZS CISPR 22 • CISPR 22 Class A • EN55022 Class A • ICES-003 Class A • VCCI Class A • CNS-13438 Class A • EN61000-3-2 • EN61000-3-3 <p>Immunity</p> <ul style="list-style-type: none"> • IEC/EN61000-4-2 Electrostatic Discharge Immunity • IEC/EN61000-4-3 Radiated Immunity • IEC/EN61000-4-4 EFT-B Immunity • IEC/EN61000-4-5 Surge • IEC/EN61000-4-6 Immunity to Conducted Disturbances • IEC/EN61000-4-8 Power Frequency Magnetic Field Immunity • IEC/EN61000-4-11 Voltage Dips, Short Interruptions, and Voltage Variations <p>ETSI/EN</p> <ul style="list-style-type: none"> • EN55022/CISPR 22 Information Technology Equipment (Emissions) • EN55024/CISPR 24 Information Technology Equipment (Immunity) • EN300 386 Telecommunications Network Equipment • EN50082-1/EN61000-6-1 Generic Immunity Standard
<p>Safety Standard</p>	<p>UL60950-1 CSA C22.2 No. 60950-1-03EN 60950-1 IEC 60950-1 AS/NZS 60950.1</p>

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