A9K-2X100GE-TR Datasheet

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Overview

Remove bandwidth bottlenecks from increased video-on-demand (VoD), IPTV, point-to-point video, Internet video, and cloud services traffic with the Cisco® ASR 9000 Series 2-Port 100 Gigabit Ethernet Line Cards. These powerful line cards deliver an industry-leading two 100 Gigabit Ethernet ports to any slot of a Cisco ASR 9000 Series Aggregation Services Router. Large 10 Gigabit Ethernet link aggregation bundles can now be replaced by a single 100 Gigabit Ethernet port to simplify network designs. CISCO A9K-2X100GE-TR deliver economical, scalable, highly available, line-rate Ethernet and IP/Multiprotocol Label Switching (MPLS) edge services.

Quick Spec

Figure 1 shows the appearance of A9K-2X100GE-TR.

Table 1 shows the quick spec.

Part Number	A9K-2X100GE-TR
Product Description	Cisco ASR 9000 2-Port 100GE Packet Transport Optimized Line Card, Requires CFP optics
Supported Devices	Cisco ASR 9000 Router
Connectivity	10-Mbps, 100-Mbps, 1-Gbps, and 10-Gbps 802.3 Ethernet
Memory	4 GB DRAM
Options	Each line card is available as either a low queue, base or extended line card.
Physical dimensions (H x W x D); weight	14 x 1.72 x 20.5 in.(35.56 x 4.37 x 52.07 cm) 14 – 19 lb (6.35 – 8.62 kg)
Power	Maximum 350W – 630W (depending on the card type); typical 310W – 565W (depending on the card type)

Supported Devices

Table 2 shows the supported devices.

Model	Description
ASR-9010-DC	Cisco ASR 9010 DC chassis
ASR-9010-AC	Cisco ASR 9010 AC chassis
ASR-9010-AC-V2	ASR 9010 AC Chassis with PEM Version 2
ASR-9010-DC-V2	ASR 9010 DC Chassis with PEM Version 2
ASR-9006-DC	Cisco ASR 9006 DC chassis
ASR-9006-AC	Cisco ASR 9006 AC chassis
ASR-9006-AC-V2	ASR 9006 AC Chassis with PEM Version 2
ASR-9006-DC-V2	ASR 9006 DC Chassis with PEM Version 2

Compare to Similar Items

Table 3 shows the comparison between A9K-2X100GE-TR and A9K-2X100GE-SE.

Product Code	A9K-2X100GE-TR	A9K-2X100GE-SE
Product Description	Cisco ASR 9000 2-Port 100GE Packet Transport Optimized Line Card, Requires CFP optics	Cisco ASR 9000 2-Port 100GE Service Edge Optimized Line Card, Requires CFP optics
Supported Devices	Cisco ASR 9000 Router	Cisco ASR 9000 Router
Chassis compatibility	Compatible with the Cisco ASR 9000 Series 22-slot, 10-slot, and 6-slot chassis	Compatible with the Cisco ASR 9000 Series 22-slot, 10-slot, and 6-slot chassis
Port density	2 ports of 100 Gigabit Ethernet per line card	2 ports of 100 Gigabit Ethernet per line card
Physical dimensions (H x W x D); weight	14 x 1.72 x 20.5 in.; 14 lb (35.56 x 4.37 x 52.07 cm; 6.35 kg)	14 x 1.72 x 20.5 in.; 14 lb (35.56 x 4.37 x 52.07 cm; 6.35 kg)

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Specification

A9K-2X100GE-TR Specification	
Part Number	A9K-2X100GE-TR
Product Description	Cisco ASR 9000 2-Port 100GE Packet Transport Optimized Line Card, Requires CFP optics
Chassis compatibility	Compatible with the Cisco ASR 9000 Series 22-slot, 10-slot, and 6-slot chassis
Port density	2 ports of 100 Gigabit Ethernet per line card
Ethernet	● 100-Gbps IEEE 802.3ba compliant ● 100 Gigabit Ethernet PHY monitoring ● IEEE 802.x flow control ● Full-duplex operation ● Per-port byte and packet counters for policy drops; oversubscription drops; cyclic redundancy check ● (CRC) error drops; packet sizes; and unicast, multicast, and broadcast packets
Performance	● 100-Gbps line-rate throughput per port
Options	Each line card is available as either a Service Edge Optimized (enhanced QoS) or Packet Transport Optimized (basic QoS) line card
Reliability and availability	Line card online insertion and removal (OIR) support without affecting the system
Physical dimensions (H x W x D); weight	14 x 1.72 x 20.5 in.; 14 lb (35.56 x 4.37 x 52.07 cm; 6.35 kg)
Network Equipment Building Standards (NEBS)	Cisco ASR 9000 Series 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
Operating temperature (nominal)	41 to 104ºF (5 to 40ºC)
Operating temperature (short-term)	23 to 131ºF (-5 to 55ºC) Note: Short-term refers to a period of not more than 96 consecutive hours and a total of not more than 15 days in 1 year (total of 360 hours in any given year, but no more than 15 occurrences during that 1-year period).
Operating humidity (nominal) (relative humidity)	10 to 85%
Storage temperature	-40 to 158ºF (-40 to 70ºC)

Storage (relative humidity)	5 to 95% Note: Not to exceed 0.024 kg of water per kg of dry air
Operating altitude	-60 to 4000m (up to 2000m conforms to IEC, EN, UL, and CSA 60950 requirements)
ETSI standards	Cisco ASR 9000 Series 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 ● EN55022: Information Technology Equipment (Emissions) ● EN55024: Information Technology Equipment (Immunity) ● EN50082-1/EN-61000-6-1: Generic Immunity Standard
EMC standards	Cisco ASR 9000 Series Routers are designed to meet: ● FCC Class A ● ICES 003 Class A ● AS/NZS 3548 Class A ● CISPR 22 (EN55022) Class A ● VCCI Class A ● BSMI Class A ● IEC/EN 61000-3-2: Power Line Harmonics ● IEC/EN 61000-3-3: Voltage Fluctuations and Flicker
Immunity	Cisco ASR 9000 Series 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 Ports (1kV) ● IEC/EN-61000-4-5: Surge DC Port (1kV) ● 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
Safety	Cisco ASR 9000 Series 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

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