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Refurbished CISCO A9K-RSP440L-ALIC Datasheet

CISCO > ROUTERS

Cisco ASR 9000 Series Aggregation Services Routers

Features and benefits of the Cisco ASR 9000 Series RSP 440

Feature	
Feature	Benefit
Highly scalable fabric	Designed to support high 1-, 10-, and 100-Gbps port densities Provides built-in scalability for investment protection
Dual RSP to provide an active-active switch fabric	Offers traffic load balancing simultaneously across both fabrics Offers highly available system where loss of one RSP allows for unimpeded performance per slot
Distributed forwarding plane architecture	Allows line cards to support independent forwarding for enhanced performance and scale
Control plane extension ports	Allows the redundant pair of chassis to be combined into a single logical entity to provide advantages in management, scalability, and high availability
Memoryless switch fabric	Provides transparent nonblocking low-latency packet forwarding
Virtual output queuing and arbitration	Offers service intelligence with prioritization of traffic (unicast and multicast) Provides efficient congestion management mechanism and avoids problems related to head-of-line blocking
Centralized arbiter	Uses an efficient credit mechanism to help ensure transparent switchover with zero packet loss
IEEE 1588 support	Delivers timing services over the packet network efficiently and reliably
Two independent clock source connections: BITS and Synchronization Supply Unit (SSU) DTI	Offers redundant, centralized network synchronization support
Two 16-GB Solid State Drives (SSDs)	Allows storing of core dumps and helps reduce the system Mean Time To Repair (MTTR)
Embedded Universal Series Bus (eUSB) memory port	Provides access to USB flash memory devices for software image loading and recovery
Front-panel LEDs	Provides visual indication of RSP status (active or standby), power management, and activity on compact flash and Hard Disk Drive (HDD)
Management ports	Provides easy access to system console

Hardware available for Cisco ASR 9000 Series Route switch processor

Product Number	
Product Number	Product Description
A9K-RSP440-TR and A9K-RSP440-SE	Route switch processor, bidirectional nonblocking fabric, controller, two 16-GB SSDs; includes the following: Switch fabric High-capacity full-duplex integrated dual-switch fabric 220 Gbps/slot with single RSP 440 Gbps/slot with dual RSP Memory internal 6-GB Error-Correcting Code (ECC)-protected DRAM for A9K-RSP440-TR 12-GB ECC-protected DRAM for A9K-RSP440-SE Solid state disk: two 16-GB SSDs 8-GB embedded USB Memory external USB 2.0 Type A receptacle Timing system Timing: Two independent clock source connections

	IEEE 1588 support: Copper 10/100-Mbps RJ-45 Ethernet port GPS ToD (RS422 and RS232) 1-pps RS422 or 1.0/2.3 50-ohm RF connector 10MHz in/out 1.0/2.3 50-ohm RF connector Management Two 100/1000 BASE-T (RJ-45) LAN management ports One console port One auxiliary port Two 10-GE Small Form-Factor Pluggable Plus (SFP+) virtualization cluster ports Alarms Alarm outputs: Critical Alarm (CR), Major Alarm (MJ), and minor alarm (MN) LEDs Amber Alarm Cut-Off (ACO) and lamp test System synchronization alarm (SYNC) Compact Flash activity (CF) Solid State Drive (SSD) Fan tray visual indicator (UFAN/LFAN)
A9K-RSP440-LT	Route switch processor, bidirectional nonblocking fabric, controller, one 16-GB SSD, includes the following: Switch fabric High-capacity full-duplex integrated dual-switch fabric 90 Gbps/slot with single RSP license upgradeable to 220 Gbps/slot 180 Gbps/slot with dual RSP license upgradeable to 440 Gbps/slot Memory internal 8 GB ECC-Protected DRAM Solid state disk: one 16-GB SSDs 8-GB embedded USB Memory external USB 2.0 Type A receptacle Timing system Timing: Two independent clock source connections IEEE 1588 support: Copper 10/100-Mbps RJ-45 Ethernet port GPS ToD (RS422 and RS232) 1-pps RS422 or 1.0/2.3 50-ohm RF connector 10-MHz in/out 1.0/2.3 50-ohm RF connector Management Two 100/1000 BASE-T (RJ-45) LAN management ports One console port One auxiliary port Two 10-GE Small Form-Factor Pluggable Plus (SFP+) virtualization cluster ports Alarms Alarm outputs: Critical alarm (CR), major alarm (MJ), and minor alarm (MN) LEDs Amber Alarm Cut-Off (ACO) and lamp test System synchronization alarm (SYNC) Compact Flash activity (CF) Solid State Drive (SSD) Fan tray visual indicator (UFAN/LFAN)

Product specifications

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) 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 (a 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%
Operating humidity (short-term)	5 to 90% Note: Not to exceed 0.024 kg water or dry air
Storage temperature	-40 to 158°F (-40 to 70°C)
Storage (relative humidity)	5 to 95% Note: Not to exceed 0.024 kg water or dry air

The next steps...

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