

# Refurbished CISCO A9K-RSP440-TR Datasheet

CISCO > ROUTERS

## Cisco ASR 9000 Series Aggregation Services Routers

### Features and benefits of the Cisco ASR 9000 Series RSP 440

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

### Hardware available for Cisco ASR 9000 Series Route switch processor

Product Number	
<b>Product Description</b>	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)

## Product specifications

### Category

#### Part Number or Specification

A9K-40GE-SE  
 A9K-40GE-TR  
 A9K-4T16GE-SE  
 A9K-4T16GE-TR  
 A9K-40GE-L  
 A9K-40GE-B  
 A9K-40GE-E  
 A9K-8T/4-L  
 A9K-8T/4-B  
 A9K-8T/4-E  
 A9K-4T-L  
 A9K-4T-B A9K-4T-E  
 A9K-2T20GE-L  
 A9K-2T20GE-B  
 A9K-2T20GE-E  
 A9K-8T-L  
 A9K-8T-B  
 A9K-8T-E  
 A9K-16T/8-B  
 A9K-1X100GE-SE  
 A9K-1X100GE-TR  
 A9K-2X100GE-SE  
 A9K-2X100GE-TR  
 A9K-24X10GE-SE  
 A9K-24X10GE-TR  
 A9K-36X10GE-SE  
 A9K-36X10GE-TR

#### Category

A9K-48X10GE-1G-SE  
 A9K-48X10GE-1G-TR  
 A9K-24X10GE-1G-SE  
 A9K-24X10GE-1G-TR  
 A9K-8X100GE-LB-SE  
 A9K-8X100GE-LB-TR  
 A9K-8X100GE-SE  
 A9K-8X100GE-TR  
 A9K-4X100GE-SE  
 A9K-4X100GE-TR  
 A9K-4X100GE  
 A9K-MOD80-SE  
 A9K-MOD80-TR  
 A9K-MOD160-SE  
 A9K-MOD160-TR  
 A9K-MOD200-SE  
 A9K-MOD200-TR  
 A9K-MOD400-SE  
 A9K-MOD400-TR  
 A9K-VSM-500  
 A9K-SIP-700

## 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)

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<b>Operating humidity (nominal) (relative humidity)</b>	10 to 85%
<b>Operating humidity (short-term)</b>	5 to 90% Note: Not to exceed 0.024 kg water or dry air
<b>Storage temperature</b>	-40 to 158°F (-40 to 70°C)
<b>Storage (relative humidity)</b>	5 to 95% Note: Not to exceed 0.024 kg water or dry air

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## The next steps...

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