Cisco N9K-SUP-B+

DATASHEET

Supervisor Engine B+ for Nexus 9500 Series

PRODUCT OVERVIEW

The **Cisco N9K-SUP-B+** is a high-performance Supervisor Engine designed for the **Cisco Nexus 9500 Series** modular switches (Nexus 9504, 9508, and 9516). It manages control plane functions, system administration, protocol processing, and provisioning, offering upgraded memory and processing power for large-scale data center environments.

HARDWARE & SYSTEM SPECIFICATIONS

SPECIFICATION	DETAILS / VALUE
Supported Chassis	Cisco Nexus 9504, Nexus 9508, Nexus 9516 Chassis
Processor	6-Core Intel Xeon CPU (1.9 GHz)
System RAM	64 GB DRAM
Internal Storage	128 GB eMMC Flash / SSD
Supervisor Redundancy	1+1 Active/Standby Redundancy (Stateful Switchover - SSO)
USB Expansion	2x USB 3.0 Ports (for external logs, boot images, configuration)

Management Connectivity

- **Management Port:** 2x 10/100/1000M RJ-45 Ethernet
- **Console Port:** 1x RS-232 Serial Port (RJ-45)
- **Auxiliary Port:** 1x RJ-45 AUX Port
- **System LED Indicators:** Status, Active/ Standby, Fan, Power

Key Architecture Features

- **High-Scale Control Plane:** Supports high BGP/OSPF route tables
- **Enhanced Telemetry:** Hardware-assisted streaming telemetry
- **Container Support:** Runs guest shell & LXC containers
- **Redundant Storage:** Dual storage partitions for safe OS upgrades

SOFTWARE & NETWORK PROTOCOLS

Operating Modes	Cisco NX-OS Software / Cisco ACI (Application Centric Infrastructure)

Protocols Supported	VXLAN EVPN, SRv6, BGP, OSPF, IS-IS, PTP (IEEE 1588), gRPC
Automation Tools	Nexus Dashboard, Python 3, Ansible, Terraform, RESTCONF, NETCONF