

BRAND NEW & VERIFIED



VERIFIED PRODUCT DATASHEET

N9K-C9504-FM-E

Cisco Network Hardware Specification, Availability and Quote Reference

Product Model	N9K-C9504-FM-E
Document Type	Product Datasheet
Condition	Brand New, Original and Verified
Supplier	Layer23-Switch.com

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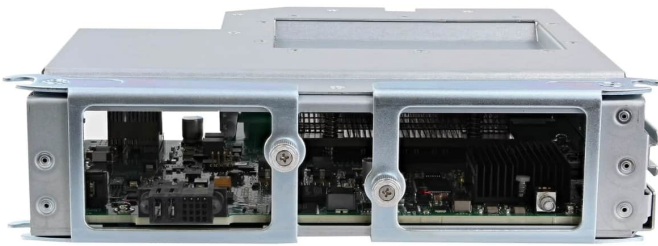
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N9K-C9504-FM-E Datasheet

The Cisco N9K-C9504-FM-E datasheet provides verified specifications, key features, and application scenarios. This document helps engineers and IT buyers quickly evaluate the N9K-C9504-FM-E and integrate it into enterprise or service provider networks with confidence.



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Key Features

High-Performance Fabric Backbone

Delivers non-blocking, low-latency switching fabric for Cisco Nexus 9504 chassis, supporting 100G and 400G line-card deployments with optimal throughput.

Scalable Modular Architecture

Supports up to six identical fabric modules in a single chassis, enabling N+1 or N+N redundancy for maximum uptime in mission-critical networks.

Optimized Airflow & Cooling Integration

Designed to work seamlessly with N9K-C9504-FAN / FAN2 fan trays for efficient front-to-back airflow, ensuring thermal stability under heavy loads.

Flexible Deployment Compatibility

Fully compatible with Cisco ACI (Application Centric Infrastructure) and NX-OS modes, enabling both policy-based automated fabrics and traditional L2/L3 designs.

Future-Ready Bandwidth Support

Engineered for next-generation cloud-scale data centers, capable of supporting evolving line-card technologies and higher Ethernet

speeds as they become available.

Serviceability & Investment Protection

Hot-swappable design with fabric module blank compatibility (N9K-C9504-FM-CV) for unused slots, simplifying maintenance and extending chassis lifecycle.

Specification

Parameter	Value	Parameter	Value
Model	N9K-C9504-FM-E	Product Type	Fabric Module
Compatible Chassis	Cisco Nexus N9K-C9504	Fabric Slots per Chassis	Up to 6 (modules must be same type)
Installation Location	Rear, behind fan trays	Airflow (chassis)	Front-to-back (via fan trays)
Fan Trays (related)	N9K-C9504-FAN / N9K-C9504-FAN2	Fabric Blanks	N9K-C9504-FM-CV (for unused slots)
Redundancy	N+1 / N+N (quantity dependent)	Fabric/LC Bandwidth	Depends on fabric + line-card combination
Operations Mode	Works with ACI or NX-OS deployments	Serviceability	Field-replaceable module
Environmental	Inherits C9504 chassis specs	Compliance	Per C9504 platform compliance

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