

BRAND NEW & VERIFIED



VERIFIED PRODUCT DATASHEET

DS-C9148T-24IK9

Cisco Network Hardware Specification, Availability and Quote Reference

| | |
|----------------------|---|
| Product Model | DS-C9148T-24IK9 |
| Document Type | Product Datasheet |
| Condition | Brand New, Original and Verified |
| Supplier | Layer23-Switch.com |

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DS-C9148T-24IK9 Datasheet

The Cisco DS-C9148T-24IK9 datasheet provides verified specifications, key features, and application scenarios. This document helps engineers and IT buyers quickly evaluate the DS-C9148T-24IK9 and integrate it into enterprise or service provider networks with confidence.

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Key Features

Day-0 to Day-2 fast roll-out

Zero-touch turn-up with POAP, golden templates in Cisco NDFC, and API-first workflows (REST/NX-API) to standardize new racks or sites in minutes.

Capacity-on-demand economics

Start with 24 active ports and scale in planned 8-port steps, aligning CapEx to host/array growth and avoiding forklift changes during live projects.

Multi-workload service assurance

Per-fabric policies and QoS keep noisy backup jobs from impacting latency-sensitive OLTP/VDI; predictable headroom for month-end closes and maintenance windows.

Audit-ready operations for regulated teams

Role separation and centralized AAA (TACACS+/RADIUS/LDAP/AD), signed images, and comprehensive logging make change tracking and compliance reviews straightforward.

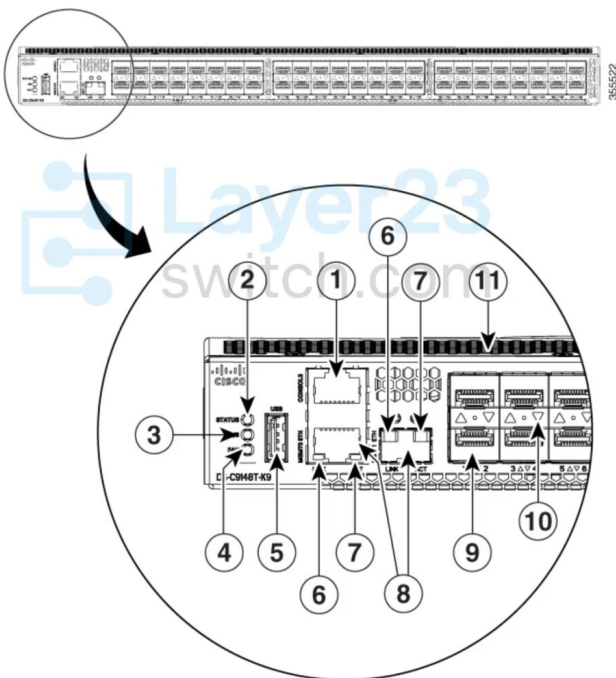
Interoperability across mixed generations

Run 8G/16G today and 32G where needed, with broad ecosystem support for major HBAs and arrays—ideal for phased refreshes and multi-vendor SANs.

Fleet simplification for intake-cooled racks

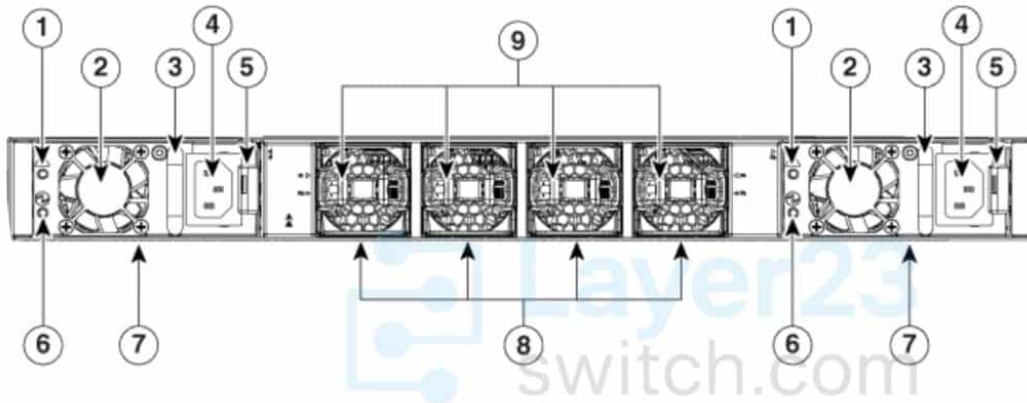
Port-side intake airflow aligns with front-cold aisles; a single intake SKU reduces spares complexity across sites while the compact 1RU footprint eases cable management.

Front View

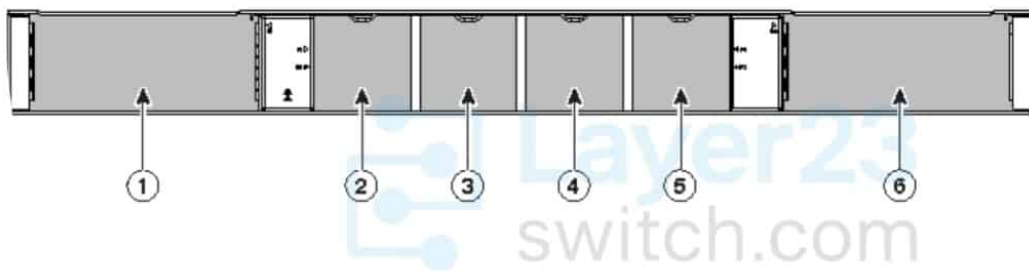


| | | | |
|---|---------------------|----|-------------------------------|
| 1 | Serial console port | 7 | Activity status LED |
| 2 | System status LED | 8 | Ethernet management ports (2) |
| 3 | Power status LED | 9 | Fixed FC ports |
| 4 | Fan status LED | 10 | FC port status LEDs (48) |
| 5 | USB port | 11 | Airflow grill |
| 6 | Link status LED | | |

Rear View



| | | | |
|---|---------------------------------|---|--|
| 1 | Power supply failure status LED | 6 | Power supply status LED |
| 2 | Power supply unit fan | 7 | Power supply units (2 units) |
| 3 | Power supply unit handle | 8 | Chassis fan modules (4 units) |
| 4 | Unswitched power receptacle | 9 | Chassis fan module release latches (8) |
| 5 | Power supply unit latch release | | |



| | | | |
|---|---------------------------|---|---------------------------|
| 1 | Power supply unit slot 1 | 4 | Chassis fan module slot 3 |
| 2 | Chassis fan module slot 1 | 5 | Chassis fan module slot 4 |
| 3 | Chassis fan module slot 2 | 6 | Power supply unit slot 2 |

Specification

| Parameter | Specification | Parameter | Specification |
|---------------------|------------------------------------|---------------------|--|
| Product model | DS-C9148T-24IK9 (MDS 9148T series) | Form factor | 1RU fixed FC switch |
| Physical FC ports | 48 x SFP+/SFP28 Fibre Channel | Base licensed ports | 24 active, scalable to 48 |
| Port speeds | Auto-sensing 4/8/16/32Gbps | Performance | Non-blocking, line-rate on licensed ports |
| Aggregate bandwidth | Up to 1.536Tbps | Latency | Low, cut-through switching |
| Expansion model | Port-On-Demand in 8-port steps | Port-channel | ISL PortChannels for resiliency |
| Protocols | FCP, NVMe/FC | Fabric services | VSANs, IVR (license), Smart/Auto Zoning, QoS |

| Parameter | Specification | Parameter | Specification |
|---------------------|--|------------------|--|
| Analytics/telemetry | Hardware-based SAN Analytics; model-driven telemetry | Diagnostics | ISL/HBA diagnostics, slow-drain detection, SPAN/RSPAN |
| Management | NX-OS CLI/SSH, SNMP, REST/NX-API | Controller | Cisco NDFC/DCNM |
| High availability | Hot-swappable dual PSUs and fans | Airflow | Port-side intake (red) variant |
| Power | AC PSU options; 1 required, 2 for redundancy | Cooling | Redundant hot-swappable fan modules |
| Security | RBAC, TACACS+/RADIUS/LDAP/AD, Secure boot | FC-SP | DH-CHAP; optional link encryption |
| Automation | REST/NX-API, Python/Ansible; POAP | Call Home | Integrated |
| Front I/O | 48 x FC ports; USB; serial console | Management ports | Ethernet management for OOB |
| LEDs | System, fan, PSU, link/activity | Interoperability | MDS 9000 family per compatibility matrix |
| Dimensions/weight | 1RU; per datasheet | Environmental | Per datasheet (operating temp/humidity) |
| Power/thermal | Per PSU/datasheet | Certifications | Safety/EMC/RoHS per Cisco |
| Transceivers | Cisco 32G/16G/8G FC optics supported | Accessories | Rail kit, regional power cords (optics ordered separately) |

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