

BRAND NEW & VERIFIED



VERIFIED PRODUCT DATASHEET

# DS-C9148T-24PITK9

Cisco Network Hardware Specification, Availability and Quote Reference

|               |                                  |
|---------------|----------------------------------|
| Product Model | DS-C9148T-24PITK9                |
| Document Type | Product Datasheet                |
| Condition     | Brand New, Original and Verified |
| Supplier      | Layer23-Switch.com               |

|                        |                              |                              |                            |
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## DS-C9148T-24PITK9 Datasheet

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The Cisco DS-C9148T-24PITK9 datasheet provides verified specifications, key features, and application scenarios. This document helps engineers and IT buyers quickly evaluate the DS-C9148T-24PITK9 and integrate it into enterprise or service provider networks with confidence.

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### Key Features

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#### High-Performance 32G Fibre Channel

Speed and Low Latency. Provides dedicated 32 Gbps bandwidth for every port, ensuring consistent high performance for demanding applications like transactional databases and analytics. It is fully backward compatible with 8G and 16G speeds, allowing for smooth integration into existing SAN environments without forklift upgrades.

#### Pay-As-You-Grow Scalability

Flexible Licensing. This model ships with 24 ports active. As your storage network expands, you can enable additional ports in 8-port increments using on-demand licenses (up to 48 ports total). This allows organizations to minimize initial capital expenditure while maintaining the flexibility to scale rapidly.

#### Port-Side Intake Airflow

Thermal Optimization. Specifically designed with "Port-Side Intake" airflow (often denoted by red color-coding on fans/PSUs). This configuration draws cool air from the connector side and exhausts hot air through the power supply side, perfectly matching standard data center hot-aisle/cold-aisle containment designs where switches are mounted at the top of the rack.

#### NVMe over Fibre Channel Ready

Next-Gen Storage Support. Built to support NVMe/FC workloads alongside traditional SCSI Fibre Channel traffic. This capability unlocks the full performance potential of all-flash storage arrays, significantly reducing latency for virtualized workloads and enabling faster data access speeds.

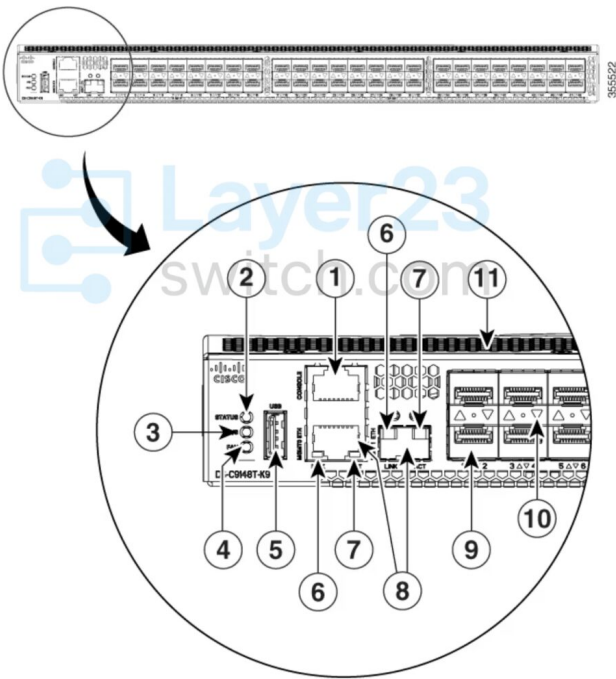
# Integrated SAN Analytics

Deep Visibility. Features a built-in telemetry engine that inspects packet headers at line rate. This provides real-time visibility into flow performance, latency, and errors without requiring external taps or probes, helping storage administrators troubleshoot performance issues in seconds rather than hours.

# Enterprise-Class Availability

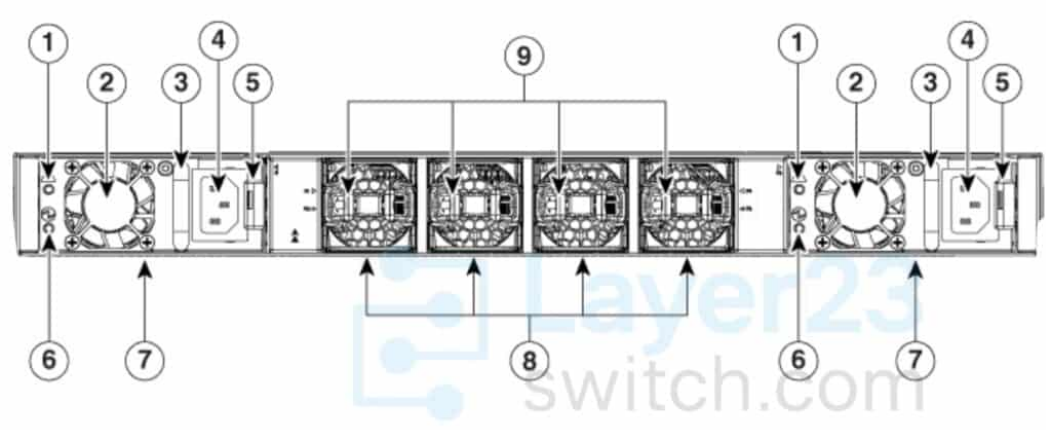
Zero Downtime. Designed for 99.999% availability, the switch includes redundant hot-swappable power supplies and fans. It also supports In-Service Software Upgrades (ISSU), allowing you to update the operating system without disrupting storage traffic, a critical requirement for 24/7 business operations.

## DS-C9148T-24PITK9 Front View

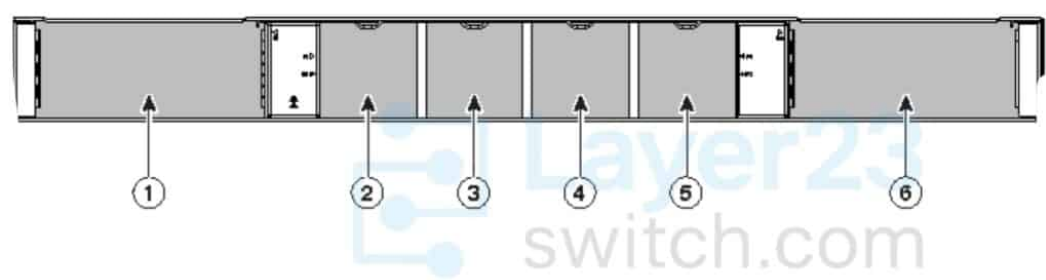


|   |                     |    |                               |
|---|---------------------|----|-------------------------------|
| 1 | Serial console port | 7  | Activity status LED           |
| 2 | System status LED   | 8  | Ethernet management ports (2) |
| 3 | Power status LED    | 9  | Fixed FC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

## DS-C9148T-24PITK9 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            | Details                             | Parameter           | Details                          |
|----------------------|-------------------------------------|---------------------|----------------------------------|
| Model SKU            | DS-C9148T-24PITK9                   | Series Family       | Cisco MDS 9100 Series            |
| Chassis Form Factor  | 1RU Rack Mount                      | Airflow Direction   | Port-Side Intake (Front-to-Back) |
| Total Physical Ports | 48 x SFP+                           | Base Active Ports   | 24 (License Enabled)             |
| Port Speed Support   | 32/16/8/4 Gbps (Auto-sensing)       | Switching Bandwidth | 1.536 Tbps (Line Rate)           |
| System Latency       | < 20 microseconds (64-byte frame)   | Port Types          | E, F, NP, TE, TF, SD             |
| Buffer Credits       | 512 (default per group), up to 8270 | Classes of Service  | Class 2, Class 3, Class F        |

| Parameter              | Details                                               | Parameter           | Details                            |
|------------------------|-------------------------------------------------------|---------------------|------------------------------------|
| Storage Protocols      | Fibre Channel (FCP), NVMe/FC, FICON                   | Fabric Services     | Name Server, RSCN, Zoning, Login   |
| Max VSANs              | 32                                                    | Max Zones           | 20,000                             |
| Management Interfaces  | 1x 10/100/1000 Ethernet, 1x RS-232 Serial, 1x USB 2.0 | Telemetry           | Built-in ASIC-based flow analytics |
| Power Supply           | Dual 650W AC (Redundant 1+1)                          | Input Voltage       | 100 to 240 VAC, 50-60 Hz           |
| Power Consumption      | 72W (Idle), 135W (Typical)                            | Heat Dissipation    | 460 BTU/hr (Typical)               |
| Fan Modules            | 4x Hot-Swappable (Redundant N+1)                      | Airflow Color Code  | Red (Port-Side Intake)             |
| Dimensions (H x W x D) | 1.72 x 17.3 x 20.11 in (4.37 x 43.94 x 51.1 cm)       | Weight              | 18.74 lb (8.5 kg)                  |
| Operating Temperature  | 32°F to 104°F (0°C to 40°C)                           | Storage Temperature | -40°F to 158°F (-40°C to 70°C)     |
| Operating Humidity     | 10% to 90% non-condensing                             | Operating Altitude  | Up to 6,500 ft (1981 m)            |
| Reliability (MTBF)     | 262,170 Hours                                         | Software Image      | Cisco MDS NX-OS                    |
| Safety Certifications  | UL 60950, IEC 60950, EN 60950                         | EMC Certifications  | FCC Part 15 Class A, EN 55032      |

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