

BRAND NEW & VERIFIED



VERIFIED PRODUCT DATASHEET

DS-C9148T-24PETK9

Cisco Network Hardware Specification, Availability and Quote Reference

Product Model	DS-C9148T-24PETK9
Document Type	Product Datasheet
Condition	Brand New, Original and Verified
Supplier	Layer23-Switch.com

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DS-C9148T-24PETK9 Datasheet

The Cisco DS-C9148T-24PETK9 datasheet provides verified specifications, key features, and application scenarios. This document helps engineers and IT buyers quickly evaluate the DS-C9148T-24PETK9 and integrate it into enterprise or service provider networks with confidence.

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Key Features

High-Density Fibre Channel Switching

Supports 24 ports of 4/8/16/32-Gbps autosensing Fibre Channel, enabling scalable connectivity for dense storage environments and SAN expansion.

Low Latency and Consistent Performance

Non-blocking architecture with predictable throughput ensures stable performance for mission-critical workloads such as databases and virtualization clusters.

Integrated SAN Analytics and Diagnostics

Built-in tools like Inter-Switch Link diagnostics, protocol decoding, and slow-drain detection simplify troubleshooting and enhance operational efficiency.

Enterprise-Grade Reliability and Redundancy

Hot-swappable dual power supplies and fans ensure high availability, supporting 24/7 data center operations with minimal downtime.

Advanced Virtualization Support

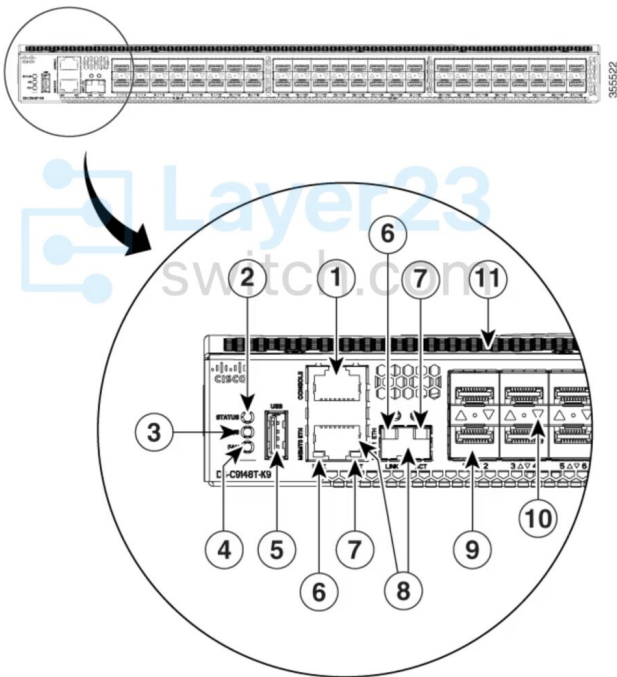
Features Virtual SANs (VSANs), Inter-VSAN Routing (IVR), and Virtual Machine Identifier (VMID) for secure, isolated, and application-

aware SAN environments.

Future-Proof NVMe/FC Readiness

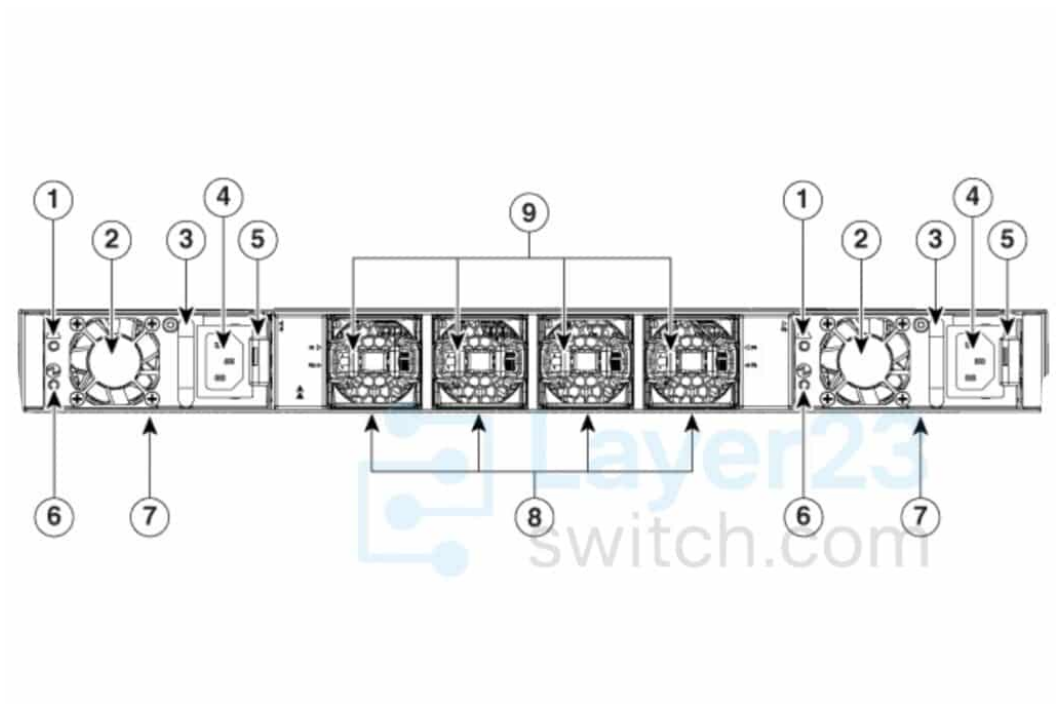
Designed to support next-generation NVMe over Fibre Channel workloads, enabling seamless transition to high-performance flash storage architectures.

Front View

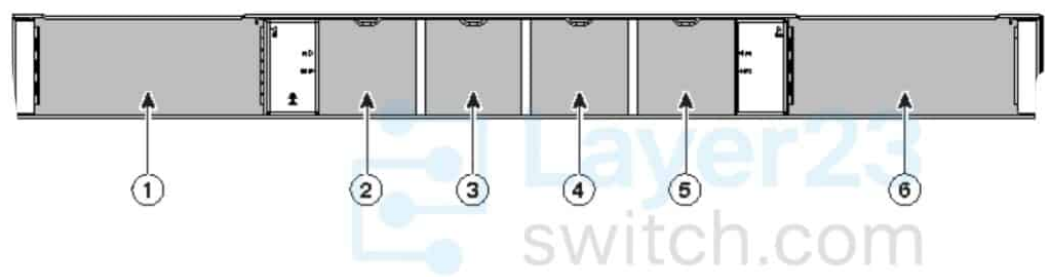


1	Serial console port	7	Activity status LED
2	System status LED	8	Ethernet management ports (2)
3	Power status LED	9	Fixed FC ports
4	Fan status LED	10	FC port status LEDs (48)
5	USB port	11	Airflow grill
6	Link status LED		

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-24PETK9 (Cisco MDS 9148T family)	Form factor	1RU fixed-configuration FC switch
Physical FC ports	48 x Fibre Channel SFP/SFP28	Licensed ports (base)	24 active; expand via Port-On-Demand
Port speed	Auto-sensing 4/8/16/32-Gbps FC	Non-blocking	Line-rate on licensed ports
NVMe/FC	NVMe over FC ready	FCP support	Yes (SCSI over FC)
Virtualization	VSANs, Smart Zoning, IVR (license)	QoS	Fabric-wide QoS, zone-based QoS

Parameter	Specification	Parameter	Specification
Analytics & telemetry	Hardware-assisted SAN Analytics; model-driven telemetry	Diagnostics	ISL/HBA diagnostics, slow-drain detection, SPAN/RSPAN
Management	Cisco NX-OS CLI/SSH, SNMP, REST/NX-API	Controller	Cisco Nexus Dashboard Fabric Controller (DCNM/NDFC)
High availability	Redundant, hot-swappable PSUs and fans	Port-channel	Up to 16 links per PC for ISL resiliency
Airflow options	Port-side intake (red) or port-side exhaust (blue)	Fan modules	Hot-swappable; minimum required for normal operation
Power supplies	2 x hot-swappable AC PSUs; 1 required, 2 for redundancy	Input	AC (HVAC/HVDC options by PSU model)
Security	RBAC, TACACS+/RADIUS/LDAP/AD, Secure Boot	FC-SP	DH-CHAP, link-level security; traffic encryption (license/feature)
Automation	NX-API/REST, Python/Ansible; POAP zero-touch	Call Home	Integrated
Front panel I/O	48 x FC ports; USB; serial console	Management ports	Ethernet mgmt port(s) for OOB access
LEDs	System, fan, PSU, port/link/activity status	Latency	Cut-through switching; low constant latency
Use cases	All-flash arrays, DB/ERP, virtualization clusters, backup	Interoperability	MDS 9000 family; per Cisco interoperability matrix
Licensing	Base + Port-On-Demand; Enterprise/Analytics packages	Software	Cisco NX-OS (MDS release train)
Operating temp/humidity	Per Cisco datasheet (fill from your project sheet)	Power/thermal	Per PSU/datasheet (fill exact W/BTU/h)
Dimensions/weight	Per datasheet 1RU; exact mm/kg	Regulatory	Safety/EMC/ROHS as listed by Cisco
Accessories	Rail kit, power cords (region), transceivers ordered separately	Transceivers	Cisco 32G/16G/8G FC SFP/SFP28 per compatibility

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