

BRAND NEW &amp; VERIFIED



## VERIFIED PRODUCT DATASHEET

# DS-C9148T-48PITK9

Cisco Network Hardware Specification, Availability and Quote Reference

<b>Product Model</b>	<b>DS-C9148T-48PITK9</b>
<b>Document Type</b>	<b>Product Datasheet</b>
<b>Condition</b>	<b>Brand New, Original and Verified</b>
<b>Supplier</b>	<b>Layer23-Switch.com</b>

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## DS-C9148T-48PITK9 Datasheet

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The Cisco DS-C9148T-48PITK9 datasheet provides verified specifications, key features, and application scenarios. This document helps engineers and IT buyers quickly evaluate the DS-C9148T-48PITK9 and integrate it into enterprise or service provider networks with confidence.

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### Key Features

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#### Full 48-port 32G density for high-IOPS workloads

All ports active at delivery for predictable, low-latency FC switching across all-flash arrays, OLTP databases, and backup windows that must finish on time.

#### NVMe/FC ready (future-proof, forward-compatible)

Run SCSI/FCP today and transition to NVMe/FC on the same fabric, preserving zoning, policies, and workflows.

#### Built-in visibility and observability

Hardware-assisted SAN Analytics, slow-drain detection, ISL/HBA diagnostics, and streaming telemetry speed root-cause analysis and capacity planning.

#### Enterprise-class resiliency

Hot-swappable dual PSUs and fans plus ISL port-channels and consistent forwarding support 24x7 operations and planned change windows.

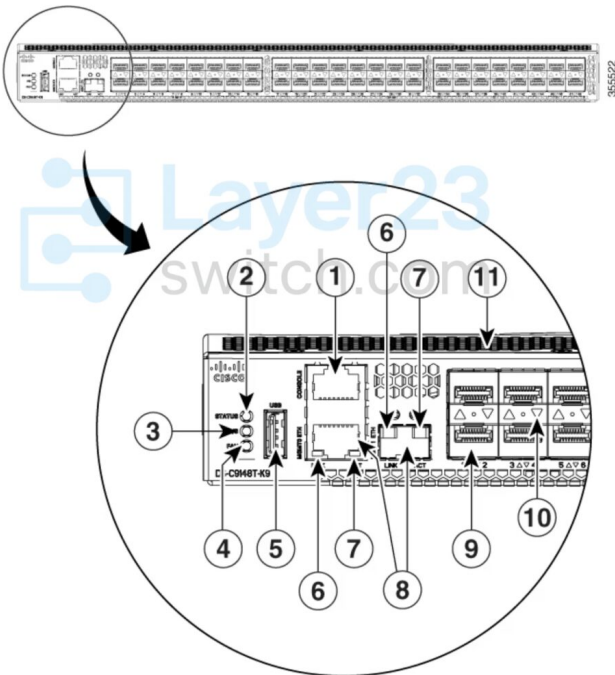
#### Segmentation and multi-tenancy

VSANs, Smart/Auto Zoning, and IVR (license) enable secure tenant/application isolation with granular QoS and simplified change control.

# Data-center friendly airflow and footprint

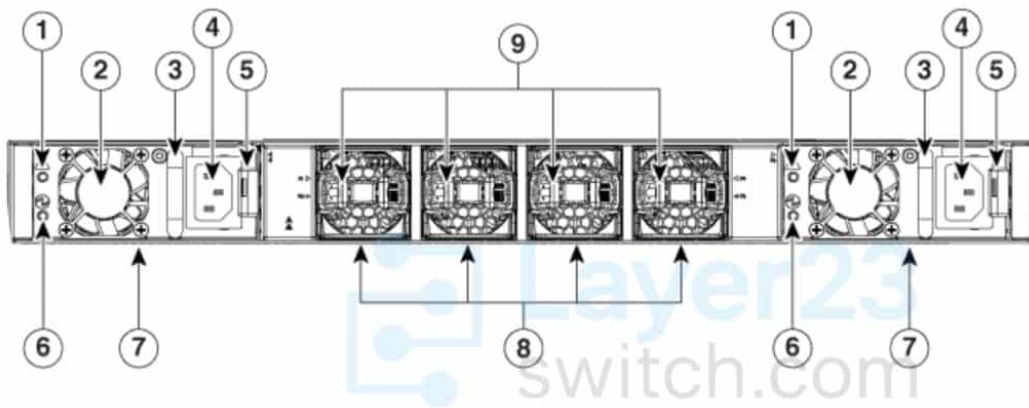
Port-side intake airflow aligns with hot/cold-aisle designs; compact 1RU chassis fits standard 19-inch racks with clean cable management.

## Front View

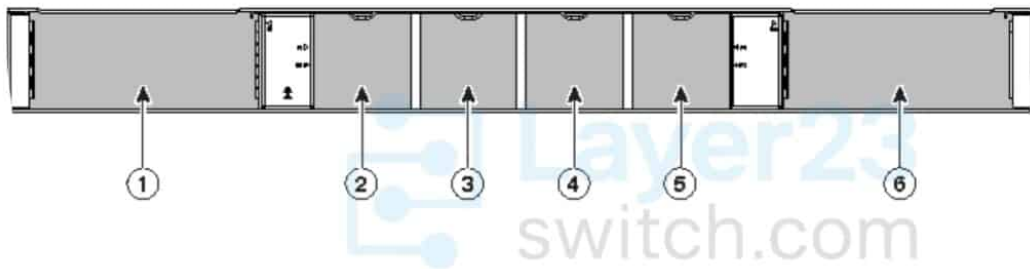


1	Serial console port	7	Activity status LED
2	System status LED	8	Ethernet management ports (2)
3	Power status LED	9	Fixed FC ports
4	Fan status LED	10	FC port status LEDs (48)
5	USB port	11	Airflow grill
6	Link status LED		

## 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-48PITK9 (MDS 9148T series)	Form factor	1RU fixed FC switch
Physical FC ports	48 x SFP+/SFP28 Fibre Channel	Licensed ports	48 active (max)
Port speeds	Auto-sensing 4/8/16/32Gbps	Performance	Non-blocking, line-rate on all ports
Aggregate bandwidth	Up to 1.536Tbps	Latency	Low, cut-through switching
Expansion model	N/A (already max licensed)	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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