

# Refurbished CISCO DS-C9132T-8PMESK9 Datasheet

CISCO > STORAGE-NETWORKING

## Cisco MDS 9100 Series Multilayer Fabric Switches

### Product specifications

#### Protocols

#### Fibre Channel standards

FC-PH, Revision 4.3 (ANSI INCITS 230-1994)  
FC-PH, Amendment 1 (ANSI INCITS 230-1994/AM1-1996)  
FC-PH, Amendment 2 (ANSI INCITS 230-1994/AM2-1999)  
FC-PH-2, Revision 7.4 (ANSI INCITS 297-1997)  
FC-PH-3, Revision 9.4 (ANSI INCITS 303-1998)  
FC-PI, Revision 13 (ANSI INCITS 352-2002)  
FC-PI-2, Revision 10 (ANSI INCITS 404-2006)  
FC-PI-3, Revision 4 (ANSI INCITS 460-2011)  
FC-PI-4, Revision 8 (ANSI INCITS 450-2008)  
FC-PI-5, Revision 6 (ANSI INCITS 479-2011)  
FC-PI-6 (ANSI INCITS 512-2015)  
FC-FS, Revision 1.9 (ANSI INCITS 373-2003)  
FC-FS-2, Revision 1.01 (ANSI INCITS 424-2007)  
FC-FS-2, Amendment 1 (ANSI INCITS 424-2007/AM1-2007)  
FC-FS-3, Revision 1.11 (ANSI INCITS 470-2011)  
FC-FS-4  
FC-LS, Revision 1.62 (ANSI INCITS 433-2007)  
FC-LS-2, Revision 2.21 (ANSI INCITS 477-2011)  
FC-LS-3, Includes revision 3.53  
FC-SW-2, Revision 5.3 (ANSI INCITS 355-2001)  
FC-SW-3, Revision 6.6 (ANSI INCITS 384-2004)  
FC-SW-4, Revision 7.5 (ANSI INCITS 418-2006)  
FC-SW-5, Revision 8.5 (ANSI INCITS 461-2010)  
FC-SW-6  
FC-GS-3, Revision 7.01 (ANSI INCITS 348-2001)  
FC-GS-4, Revision 7.91 (ANSI INCITS 387-2004)  
FC-GS-5, Revision 8.51 (ANSI INCITS 427-2007)  
FC-GS-6, Revision 9.4 (ANSI INCITS 463-2010)  
FC-GS-7, Includes revision 10.8  
FCP, Revision 12 (ANSI INCITS 269-1996)  
FCP-2, Revision 8 (ANSI INCITS 350-2003)  
FCP-3, Revision 4 (ANSI INCITS 416-2006)  
FCP-4, Revision 2b (ANSI INCITS 481-2011)  
FC-SB-2, Revision 2.1 (ANSI INCITS 349-2001)  
FC-SB-3, Revision 1.6 (ANSI INCITS 374-2003)  
FC-SB-3, Amendment 1 (ANSI INCITS 374-2003/AM1-2007)  
FC-SB-4, Revision 3.0 (ANSI INCITS 466-2011)  
FC-SB-5, Revision 2.00 (ANSI INCITS 485-2014)  
FC-BB-6, Revision 2.00 (ANSI INCITS 509-2014)  
FC-BB-2, Revision 6.0 (ANSI INCITS 372-2003)  
FC-BB-3, Revision 6.8 (ANSI INCITS 414-2006)  
FC-BB-4, Revision 2.7 (ANSI INCITS 419-2008)  
FC-BB-5, Revision 2.0 (ANSI INCITS 462-2010)  
FC-VI, Revision 1.84 (ANSI INCITS 357-2002)  
FC-SP, Revision 1.8 (ANSI INCITS 426-2007)  
FC-SP-2, Revision 2.71 (ANSI INCITS 496-2012)  
FAIS, Revision 1.03 (ANSI INCITS 432-2007)  
FAIS-2, Revision 2.23 (ANSI INCITS 449-2008)  
FC-IFR, Revision 1.06 (ANSI INCITS 475-2011)  
FC-FLA, Revision 2.7 (INCITS TR-20-1998)  
FC-PLDA, Revision 2.1 (INCITS TR-19-1998)  
FC-Tape, Revision 1.17 (INCITS TR-24-1999)  
FC-MI, Revision 1.92 (INCITS TR-30-2002)  
FC-MI-2, Revision 2.6 (INCITS TR-39-2005)  
FC-MI-3, Revision 1.03 (INCITS TR-48-2012)  
FC-DA, Revision 3.1 (INCITS TR-36-2004)  
FC-DA-2, Revision 1.06 (INCITS TR-49-2012)  
FC-MSQS, Revision 3.2 (INCITS TR-46-2011)  
Fibre Channel classes of service: Class 2, Class 3, and Class F  
Fibre Channel standard port types: E, F, and B  
Fibre Channel enhanced port types: SD, ST, and TE  
NVMe/FC  
In-band management using IP over Fibre Channel (RFC 2625)

	IPv6, IPv4, and Address Resolution Protocol (ARP) over Fibre Channel (RFC 4338) Extensive IETF-standards-based TCP/IP, SNMPv3, and Remote Monitoring (RMON) MIBs
<b>Fibre Channel ports</b>	Fixed switch form factor with 16 SFP+ ports base and one 16 SFP+ port expansion slot Entry-level 8-port preactivated base model with flexibility to turn on any 8 ports Incremental ports On the 8-port base model, with the 8-Port On- Demand Activation license to activate up to 16 ports on the base switch On the 8-port base model, with the 16-port expansion module to activate up to 24 ports On the 16-port configuration, with the 16-port expansion module to activate up to 32 ports On the 24-port configuration, with the 8-Port On- Demand Activation license to activate up to 32 ports
<b>Security</b>	VSAN fabric isolation Intelligent packet inspection @ port level Hardware zoning by Access Control Lists (ACLs) FC-SP switch-to-switch authentication FC-SP host-to-switch authentication RBAC using RADIUS, TACACS+ or LDAP Authentication, Authorization, and Accounting (AAA) functions Secure FTP (SFTP) Secure Shell Version 2 (SSHv2) Simple Network Management Protocol Version 3 (SNMPv3) implementing Advanced Encryption Standard (AES) Control-plane security Cisco TrustSec payload encryption Secure Boot and Anti-counterfeit technology
<b>Performance</b>	Port speed: 4/8/16/32-Gbps autosensing with 32 Gbps of dedicated bandwidth per port Aggregate bandwidth of 1024 Gbps end-to-end full duplex Buffer credits: Up to 8300 for a group of 16 ports, with a default of 500 buffer credits per port and a maximum of 8270 buffer credits for a single port in the group Port channel: Up to 16 load-balanced physical links grouped in one port channel
<b>Diagnostics</b>	Power-on-Self-Test (POST) diagnostics Online Health Management System (OHMS) diagnostics Internal loopbacks SPAN Fibre Channel traceroute Fibre Channel ping Fibre Channel debug Cisco Fabric Analyzer Syslog Port-level statistics Link Diagnostics (ISL Diagnostics and HBA Diagnostics) Read Diagnostic Parameter
<b>Serviceability</b>	Configuration file management Call Home Port beaconing Link Cable Beacon System LEDs SNMP traps for alerts
<b>Reliability and availability</b>	Cisco In-Service Software Upgrade (ISSU) Hot-swappable, dual redundant power supplies Hot-swappable fan tray with switch integrated temperature and power management Hot-swappable SFP+ optics Stateful process restart Any port configuration for port channels Fabric-based multi pathing Per-VSAN fabric services Port tracking VRRP for management IP interface
<b>Network management</b>	Management access through 2 out-of-band 10/100/1000 Mbps Ethernet ports mgmt0: 10/100/1000BASE-T port mgmt1: 10/100/1000BASE-T port RS-232 serial console port USB power-on auto-provision port Access protocols Command-Line Interface (CLI) using the console and Ethernet port SNMPv3 using the Ethernet port and in-band IP over Fibre Channel access Storage Networking Industry Association (SNIA) Storage Management Initiative Specification (SMI-S) NX-API for restful access via HTTPS Distributed device alias service Network security Per-VSAN Role-Based Access Control (RBAC) using LDAP, RADIUS and TACACS+-based Authentication, Authorization, and Accounting (AAA) functions SFTP SSHv2 implementing AES SNMPv3 implementing AES Cisco Data Center Network Manager

<b>Programming interfaces</b>	Scriptable CLI Cisco DCNM web services API NX-API restful interfaces On-board Python interpreter Cisco Embedded Event Manager Cisco NX-OS Software scheduler
<b>Physical dimensions (HxWxD) and weight</b>	1RU (1.72 inches x 17.3 inches x 20.11 inches) excluding Power Supply Unit (PSU) and fan tray handles 9.1 kg with 16 activated ports 9.82 kg with all 32 activated ports
<b>Power</b>	80 Plus Platinum certified power supplies Power supply options 650W AC in base model, port-side exhaust variant (up to 2 per switch) 650W AC in base model, port-side intake variant (up to 2 per switch) Power cord IEC60320 C14 plug on 650W power supply connecting to a notched C15 socket connector (check Table 6 for power cords specific to regions) AC input: 100 to 240V AC (10% range) Frequency: 50 to 60 Hz (nominal) Typical power consumption 72W for idle base switch with 16 ports activated without SFPs 43W for idle expansion module with 16 ports activated without SFPs 80W for 8 ports activated with 32G SFPs with traffic at 25°C Airflow Back to front (toward ports) using port-side exhaust fans Front to back (inward from ports) using port-side intake fans 50 Cubic Feet per Minute (CFM) through system fan assembly at 25°C 100 CFM maximum
<b>Temperature range</b>	Temperature, ambient operating: 32 to 104°F (0 to 45°C) with port-side exhaust airflow variant 32 to 131°F (0 to 55°C) with port-side intake airflow variant Temperature, ambient nonoperating and storage: -40 to 158°F (-40 to 70°C) Relative humidity, ambient (noncondensing) operating: 10 to 90% Relative humidity, ambient (noncondensing) nonoperating and storage: 10 to 95% Altitude, operating: -197 to 6500 ft (-60 to 2000m)
<b>Approvals and compliance</b>	Safety compliance CE Marking UL 60950 CAN/CSA-C22.2 No. 60950 EN 60950 IEC 60950 TS 001 AS/NZS 3260 IEC60825 EN60825 21 CFR 1040 EMC compliance FCC Part 15 (CFR 47) Class A ICES-003 Class A EN 55022 Class A CISPR 22 Class A AS/NZS 3548 Class A VCCI Class A EN 55024 EN 50082-1 EN 61000-6-1 EN 61000-3-2 EN 61000-3-3
<b>Fabric services</b>	Name server Registered State Change Notification (RSCN) Login services Fabric Configuration Server (FCS) Broadcast In-order delivery
<b>Advanced functions</b>	VSAN IVR Port channel with multipath load balancing Flow-based and zone-based QoS
<b>Supported Cisco optics, media, and transmission distances</b>	For detailed information about all supported transceivers, see Cisco MDS 9000 Family pluggable transceivers documentation

## Base modules

Description	Part number
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<b>MDS 9132 32G 1 RU FC switch, w/ 8 active FC ports, 2 Fans, 1 PSU, Port Side Exhaust</b>	DS-C9132T-MEK9
<b>MDS 9132 32G 1 RU FC switch, w/ 8 active FC ports, 2 Fans, 1 PSU, Port Side Intake</b>	DS-C9132T-MIK9
<b>MDS 9132T 32G FC switch 8 Port Activation License for Base</b>	M9132T-PL8
<b>MDS 32G FC Port Expansion module, w/ 16 active ports for Base</b>	M9XT-FC1632

## Spare modules

Description	Part number
<b>MDS 9132 32G 1 RU FC switch, w/ 8 active FC ports, 2 Fans, 1 PSU, Port Side Exhaust, spare</b>	DS-C9132T-MEK9=
<b>MDS 9132 32G 1 RU FC switch, w/ 8 active FC ports, 2 Fans, 1 PSU, Port Side Intake, spare</b>	DS-C9132T-MIK9=
<b>MDS 32G FC 16-Port expansion module, w/ 16 active ports, spare</b>	M9XT-FC1632=
<b>MDS 9132T 32G FC switch 8 Port Activation License, spare</b>	M9132T-PL8=
<b>AC PSU Port side Exhaust, spare</b>	DS-CAC-650W-E=
<b>AC PSU Port side Intake, spare</b>	DS-CAC-650W-I=
<b>MDS 9132T FAN tray, port side Exhaust, spare</b>	DS-C32S-FAN-E=
<b>MDS 9132T FAN tray, port side Intake, spare</b>	DS-C32S-FAN-I=

## Bundled configurations

Description	
Description	Part number
<b>MDS 9132T 32G FC switch, w/ 8 active ports + 8x16G SW Optics, 2 Fans, 1 PSUs, Port Side Intake</b>	DS-C9132T-8PMISK9
<b>MDS 9132T 32G FC Enterprise switch, w/ 24 active ports + 24x16G SW Optics, 4 Fans, 2 PSUs, Enterprise license, Port Side Exhaust</b>	DS-C9132T-24PESK9
<b>MDS 9132T 32G FC Enterprise switch, w/ 24 active ports + 24x16G SW Optics, 4 Fans, 2 PSUs, Enterprise license, Port Side Intake</b>	DS-C9132T-24PISK9
<b>MDS 9132T 32G FC switch, w/ 8 active ports + 8x32G SW Optics, 2 Fans, 1 PSUs, Port Side Exhaust</b>	DS-C9132T-8PMETK9
<b>MDS 9132T 32G FC switch, w/ 8 active ports + 8x32G SW Optics, 2 Fans, 1 PSUs, Port Side Intake</b>	DS-C9132T-8PMITK9
<b>MDS 9132T 32G FC switch, w/ 24 active ports + 24x32G SW Optics, 4 Fans, 2 PSUs, Port Side Exhaust (Enterprise license not included)</b>	DS-C9132T-24PETK9
<b>MDS 9132T 32G FC switch, w/ 24 active ports + 24x32G SW Optics, 4 Fans, 2 PSUs, Port Side Intake (Enterprise license not included)</b>	DS-C9132T-24PITK9

license not included)

## Power cords

Description	
Description	Part number
Power Cord, 250VAC 10A IRAM 2073 Plug, Argentina	CAB-9K10A-AR
Power Cord, 250VAC 10A 3112 Plug, Australia	CAB-9K10A-AU
Power Cord, 250VAC 10A GB1002 Plug, China	CAB-9K10A-CH
Power Cord, 250VAC 10A CEE 7/7 Plug, EU	CAB-9K10A-EU
Power Cord, 250VAC 10A SI16S3 Plug, Israel	CAB-9K10A-ISR
Power Cord, 250VAC 10A CEI 23-16/VII Plug, Italy	CAB-9K10A-IT
Power Cord, 125VAC 13A KSC8305 Plug, Korea	CAB-9K10A-KOR
Power Cord, 250VAC 10A SABS 164/1 Plug, South Africa	CAB-9K10A-SA
Power Cord, 250VAC 10A, Straight C15, MP232 Plug, SWITZ	CAB-9K10A-SW
Power Cord, 125VAC 15A CNS10917-2, Taiwan	CAB-9K10A-TWN
Power Cord, 250VAC 10A BS1363 Plug (13 A fuse), UK	CAB-9K10A-UK
Power Cord, 125VAC 13A NEMA 5-15 Plug, North America	CAB-9K12A-NA
Power Cord, 250VAC 10A, Brazil	CAB-250V-10A-BR
Cabinet Jumper Power Cord, 250 VAC 13A, C14-C15 Connectors	CAB-C15-CBN
Cabinet Jumper Power Cord, 250 VAC 13A, C14-C15 Connectors, China, Republic of Korea	CAB-C15-CBN-CK
Cabinet Jumper Power Cord, 250 VAC 13A, C14-C15 Connectors, EU, Russian Federation, Belarus, Kazakhstan and Australia	CAB-C15-CBN-EURA

## Transceivers

Description	Part number
32G FC Shortwave Optics	DS-SFP-FC32G-SW
32G FC Longwave Optics	DS-SFP-FC32G-LW=
16G FC Shortwave Optics	DS-SFP-FC16G-SW
16G FC Longwave Optics	DS-SFP-FC16G-LW=
8G FC Shortwave Optics	DS-SFP-FC8G-SW=
8G FC Longwave Optics	DS-SFP-FC8G-LW=

## System requirements

Item	Requirement
Cisco NX-OS Software for switch	Cisco MDS NX-OS 8.2(1) or later
Cisco Data Center Network Manager	Cisco DCNM 10.4(1) or later

## Accessories

Description	Part number
MDS 9132T Accessory Kit for Cisco	DS-9132T-KIT-CSCO
MDS 9132T Accessory Kit for Cisco, spare	DS-9132T-KIT-CSCO=
MDS 9132T Accessory Kit for Dell/EMC	DS-9132T-KIT-EM
MDS 9132T Accessory Kit for HDS	DS-9132T-KIT-HDS
MDS 9132T Accessory Kit for IBM	DS-9132T-KIT-IBM
MDS 9132T Accessory Kit for HPE	DS-9132T-KIT-HP

## The next steps...

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