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Refurbished CISCO CAB-9K10A-TWN Datasheet

CISCO > STORAGE-NETWORKING

Cisco MDS 9100 Series Multilayer Fabric Switches

Features and Benefits

Feature	Benefit
Common software across all platforms	Reduce Total Cost of Ownership (TCO) by using Cisco NX-OS and Cisco Prime DCNM for consistent provisioning, management, and diagnostic capabilities across the fabric.
PowerOn Auto Provisioning	Automate deployment and upgrade of software images.
Smart zoning	Reduce consumption of hardware resources and administrative time needed to create and manage zones.
Intelligent diagnostics/Hardware based slow port detection	Enhance reliability, speed problem resolution, and reduce service costs by using Fibre Channel ping and traceroute to identify exact path and timing of flows, as well as Cisco Switched Port Analyzer (SPAN) and Remote SPAN (RSPAN) and Cisco Fabric Analyzer to capture and analyze network traffic.
Virtual output queuing	Help ensure line-rate performance on each port by eliminating head-of-line blocking.
High-performance ISLs	Optimize bandwidth utilization by aggregating up to 16 physical ISLs into a single logical PortChannel bundle with multipath load balancing.
In-Service Software Upgrades	Reduce downtime for planned maintenance and software upgrades.

Optional Licenses

Cisco MDS 9000 Family Enterprise Package	Includes advanced traffic-engineering and network security features such as IVR, QoS and zone-based QoS, Fibre Channel Security Protocol (FC-SP), port security, VSAN-based access control, and fabric binding for open systems. Licensed per switch for all the ports on the switch.
Cisco Prime DCNM for SAN Advanced Edition for Cisco MDS 9100 Series	Includes advanced management capabilities such as vCenter integration, performance trending, advanced provisioning, backup, and dashboards. Licensed per switch for all the ports on the switch. License is hosted on a server.
Cisco MDS 9148S 12-port On-Demand Activation	Enables 12 additional Fibre Channel ports (up to 48 total ports on the switch).

Product Specifications

Protocols	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-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-LS, Revision 1.62 (ANSI INCITS 433-2007) FC-LS-2, Revision 2.21 (ANSI INCITS 477-2011) 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-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) 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 FL Fibre Channel enhanced port types: SD, ST, and TE FC-NVMe 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
Ports	Fixed configuration with 48 ports of 16-Gbps Fibre Channel Available in a 12-port configurable base or as a bundle with all 48 ports enabled Enable incremental ports on the 12-port base model, with the 12-port On-Demand Activation license
Security	VSAN fabric isolation Hardware zoning by Access Control Lists (ACLs) Fibre Channel Security Protocol (FC-SP) switch-to-switch authentication FC-SP host-to-switch authentication Role-based access control (RBAC) using RADIUS, TACACS+, or Lightweight Directory Access Protocol (LDAP) authentication, authorization, and accounting (AAA) functions Secure FTP (SFTP) Secure Shell Protocol Version 2 (SSHv2) Simple Network Management Protocol Version 3 (SNMPv3) implementing Advanced Encryption Standard (AES) Control-plane security
Performance	Port speed: 2/4/8/16-Gbps autosensing with 16 Gbps of dedicated bandwidth per port Buffer credits: Up to 256 for a group of 4 ports, with a default of 64 buffer credits per port and a maximum of 253 buffer credits for a single port in the group PortChannel: Up to 16 physical links
Reliability and availability	ISSU Hot-swappable, dual redundant power supplies Hot-swappable fan tray with integrated temperature and power management Hot-swappable SFP+ optics Passive backplane Stateful process restart Any port configuration for PortChannels Fabric-based multipathing Per-VSAN fabric services Port tracking VRRP for management connections Online diagnostics
Network management	Access methods Out-of-band 10/100/1000 Ethernet port RS-232 serial console port USB Access protocols CLI using the console and Ethernet ports SNMPv3 using the Ethernet port and in-band IP over Fibre Channel access Storage Networking Industry Association (SNIA) Storage Management Initiative Specification (SMI-S) Distributed device alias service Network security

	Per-VSAN RBAC using RADIUS and TACACS+-based authentication, authorization, and accounting (AAA) functions SFTP SSHv2 implementing AES SNMPv3 implementing AES Management applications Cisco MDS 9000 Family CLI Cisco Prime DCNM
Programming interfaces	Scriptable CLI Cisco Prime DCNM web services API
Physical dimensions (HxWxD)	Dimensions (H x W x D): 1.72 x 17.16 x 16.34 in. (4.37 x 43.59 x 41.50 cm), 1RU Rack-mountable in standard 19-inch Electronic Industries Alliance [EIA] rack Weight of fully configured chassis: 19.84 lb (9 kg)
Power	Power supply: 300W AC (2 per switch) Power cord: Notched C15 socket connector connecting to C16 plug on power supply AC input characteristics 100 to 240V AC (10% range) 50 to 60 Hz (nominal) Airflow: back to front (toward ports) 200 linear feet per minute (LFM) through system fan assembly Cisco recommends maintaining a minimum air space of 2.5 in. (6.4 cm) between walls and chassis air vents and a minimum horizontal separation of 6 in. (15.2 cm) between two chassis to prevent overheating
Temperature range	Temperature, ambient operating: 32 to 104°F (0 to 40°C) Temperature, ambient non-operating and storage: -40 to 158°F (-40 to 70°C) Relative humidity, ambient (noncondensing) operating: 10 to 90% Relative humidity, ambient (noncondensing) non-operating and storage: 10 to 95% Altitude, operating: -197 to 6500 ft (-60 to 2000m)
Approvals and compliance	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
Fabric services	Name server Registered State Change Notification (RSCN) Login services Fabric Configuration Server (FCS) Public loop Broadcast In-order delivery
Advanced functions	VSAN IVR PortChannel with multipath load balancing Flow-based and zone-based QoS
Supported Cisco optics, media, and transmission distances	For detailed information about all supported transceivers, seeCisco MDS 9000 Family pluggable transceivers.

System Requirements

Software	Cisco MDS 9000 NX-OS Software Release 6.2(9) or later supporting Cisco MDS 9148S and Cisco Prime DCNM

The next steps...

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