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Refurbished CISCO DS-2SLOT-FAN Datasheet

CISCO > STORAGE-NETWORKING

Cisco MDS 9200 Series Multiservice Switches

Advanced Software Packages Not Requiring Application Services Engine

Advanced Software Packages Not Requiring Application Services Engine	Included or Optional
Cisco DCNM for SAN Essentials Edition	Included
Cisco DCNM for SAN Advanced Edition	Optional
Cisco MDS 9000 Enterprise	Optional
Cisco MDS 9000 Mainframe	Optional
Cisco MDS 9000 XRC Acceleration	Optional

Product Specifications

Feature	
Product compatibility	Cisco MDS 9000 Family
Software compatibility	Cisco MDS 9000 SAN-OS Release 3.2(1) or later (Note: SAN-OS 3.x releases are End-of-Life but still supported) Cisco MDS 9000 NX-OS Release 4.1(1) or later Cisco MDS 9000 NX-OS Release 5.0(1) or later Cisco MDS 9000 NX-OS Release 5.2(1) or later for DCNM for SAN support
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-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) 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 2 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-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) 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-DA, Revision 3.1 (INCITS TR-36-2004) Class of service: Class 2, Class 3, and Class F Fibre Channel standard port types: E, F, FL, and B Fibre Channel enhanced port types: SD, ST, and TE IP over Fibre Channel (RFC 2625)
Protocols (continued)	IPv6, IPv4, and Address Resolution Protocol (ARP) over Fibre Channel (RFC 4338) Extensive IETF-standards based TCP/IP, SNMPv3, and remote monitoring (RMON) MIBs IP standards RFC 791 IPv4 RFC 793 and 1323 TCP RFC 894 IP/Ethernet RFC 1041 IP/802 RFC 792, 950, and 1256 ICMP RFC 1323 TCP performance enhancements RFC 2338 VRRP RFC 2460 and 4291 IPv6 RFC 2463 and 4443 ICMPv6 RFC 2461 and 2462 IPv6 neighbor discovery and stateless autoconfiguration RFC 2464 IPv6/Ethernet RFC 3270 and 3980 iSCSI RFC 3643 and 3821 FCIP Ethernet standards IEEE Std 802.3-2005 Ethernet IEEE Std 802.1Q-2005 VLAN IPsec RFC 2401 and 4301 security architecture for IP RFC 2403 and 2404 HMAC RFC 2405, 2406, 2451, and 4303 IP ESP RFC 2407 and 2408 ISAKMP RFC 2412 OAKLEY Key Determination Protocol RFC 3566, 3602, and 3686 AES Internet Key Exchange (IKE) RFC 2409 IKEv1 RFC 4306 IKEv2
Features and Functions	
Fabric services	Name server Internet Storage Name Server (iSNS) 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 FCIP tape read and write acceleration FICON over FCIP tape read and write acceleration (pipelining) FICON XRC (z/OS Global Mirror) acceleration Cisco SME for tape, virtual tape, and disk
Diagnostics and troubleshooting tools	POST diagnostics Online diagnostics Internal port loopbacks SPAN and Remote SPAN (RSPAN) Fibre Channel traceroute Fibre Channel ping Fibre Channel debug Cisco Fabric Analyzer Syslog Online system health Port-level statistics Real-Time Protocol (RTP) debug
Network security	VSANs ACLs Per-VSAN RBAC Fibre Channel zoning N-port worldwide name (WWN)

	N-port FC-ID Fx-port WWN Fx-port WWN and interface index Fx-port domain ID and interface index Fx-port domain ID and port number iSCSI zoning iSCSI name IP address FC-SP DH-CHAP switch-to-switch authentication DH-CHAP host-to-switch authentication Port security and fabric binding IPsec for FCIP and iSCSI IKEv1 and IKEv2 Management access SSHv2 implementing AES SNMPv3 implementing AES SFTP
FICON	FC-SB-3 compliant Cascaded FICON fabrics Intermix of FICON and Fibre Channel Protocol traffic CUP management interface
Serviceability	Configuration file management ISSU for Fibre Channel interfaces Call home Power-management LEDs Port beaconing System LED SNMP traps for alerts Network boot

The next steps...

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