


Product Overview	Customer Environments and Benefits
<p>Cisco MDS 9513 Multilayer Director</p>  <p>The Cisco MDS 9513 Multilayer Director is the new flagship of the Cisco MDS 9000 Series. The newest additions to the Cisco MDS 9000 family also include three new 4-Gbps FC switching modules in 12, 24, and 48-port configurations, a new 4-port 10-Gbps Fibre Channel switching module, and SAN-OS 3.0.</p> <p>Highlights</p> <ul style="list-style-type: none"> • Industry leading port densities: The Cisco MDS 9513 supports up to 528 1/2/4-Gbps autosensing Fibre Channel ports and up to 44 10-Gbps Fibre Channel ports in a single chassis. SAN-OS 3.0 enables the new MDS 9509 and MDS 9506 Multilayer Directors to scale up to 336 and 192 1/2/4-Gbps Fibre Channel ports, respectively. • Highest performance: Cisco MDS 9500 Series Multilayer Directors deliver fully redundant crossbar bandwidth, up to 2.2Tbps per system. Each crossbar offers full system bandwidth, ensuring 100% system throughput even in the event of a crossbar failure. • TCO driven design: Advanced management tools lower overall TCO. Cisco virtual SAN (VSAN) technology allows hardware-enforced, isolated environments within a single physical fabric. • Partitioning for performance and/or security: Integrated hardware-based VSANs and Inter-VSAN Routing (IVR) allows any port within a system or fabric to be partitioned into any VSAN and application priorities to be set within / across VSANs. • Comprehensive security framework: Supports RADIUS and TACACS+, Fibre Channel Security Protocol (FC-SP), Secure File Transfer Protocol (SFTP), Secure Shell (SSH) Protocol, SNMPv3 with AES, VSANs, hardware-enforced zoning, ACLs, per-VSAN role-based access control, and more. <p>More information http://www.cisco.com/go/mds</p>	<p>Customer Environments</p> <p>The Cisco MDS 9513 is well suited for:</p> <ul style="list-style-type: none"> • Large Enterprises: The MDS 9513 addresses the stringent availability and performance requirements of large data centers. • Service Providers: The MDS 9513 is well suited for service providers and their customers who want to implement/outsourced cost-effective back-up and disaster recovery solutions. • Verticals: The MDS 9513 is extremely attractive to key verticals such as government, healthcare, and finance where data protection and archiving are mandated. <p>Top 3 Customer Benefits</p> <ul style="list-style-type: none"> • Ultra-Scalability: The MDS 9513's high-density design makes it an ideal solution for consolidating and managing the largest, most complex environments. • High availability and performance: Each crossbar offers full system bandwidth, ensuring 100% system throughput even in the event of a crossbar failure. • Investment Protection: With full utilization / interchange of Generation 1 and 2 switching modules, Cisco MDS 9500 Series Multilayer Directors minimize disruption to operations. <p>Top 3 Competitive Strengths</p> <ul style="list-style-type: none"> • Scalability: The MDS 9513 has the highest density available today – 528 ports in a single chassis – along with full redundancy. • Integrated Multiprotocol and Multitransport Architecture: The product transparently integrates Fibre Channel, IBM Fiber Connection (FICON), Small Computer System Interface over IP (iSCSI), and Fibre Channel over IP (FCIP) in one system. • Flexible platform: The Cisco MDS 9513 Multilayer Director supports any mix of first and/or second generation switching modules, providing forward and backward compatibility and delivering unparalleled investment. protection.

Specifying a Solution	Configuration and Pricing
<p>HDS Configuration, HDS Part Numbers, and Checklist</p> <ol style="list-style-type: none"> 1. Base Bundle includes a chassis, 2 Generation 2 supervisors, 2 power supplies, fan tray(s), etc. Order one of the following: <ol style="list-style-type: none"> a. 9513: Same components as the existing 9509 bundle except different power supplies, Generation 2 supervisors, and Fabric cards: DS-C9513-2K9= b. 9509: Same components as the existing bundle but with Generation 2 supervisors: DS-C9509-2K9= c. 9506: Same components as the existing bundle but with Generation 2 supervisors: DS-C9506-2K9= 2. Base Bundle Options (specify as Director option): <ol style="list-style-type: none"> a. Power cord (4 for 9513): North America (CAB-9K20A-NA=). See HDS price list or Cisco Configurator for special uses / other country cords. b. Accessory kit: DS-9513-KIT-HDS= 3. Line Cards: <ol style="list-style-type: none"> a. 12 Port: DS-X9112=.P b. 24 Port: DS-X9124=.P c. 48 Port: DS-X9148=.P d. 4x10Gbps: DS-X9704=.P 4. SFPs (spares): Not Required. Only 4 Gbps and up work: <ol style="list-style-type: none"> a. 4 Gbps Fibre Channel-SW SFP, LC, spare DS-SFP-FC4G-SW=.P b. 4 Gbps Fibre Channel- LW SFP, LC, (4km Reach), Spare DS-SFP-FC4G-MR=.P c. 4 Gbps FC-LW SFP, LC, (10km Reach), Spare DS-SFP-FC-4G-LW=.P d. 10 Gbps FC-LR X2, Spare DS-X2-FC10G-LR=.P e. 10 Gbps Fibre Channel-SR X2, Spare DS-X2-FC10G-SR=.P *** Note: Not yet available from Cisco. *** 5. Software options: Same as for 9506/9509. 6. Maintenance Options: Order either 1 year or 3 year service. 	<p>Cisco Product Configuration Tool (need CCO UserID)</p> <p>Use the Cisco Product Configuration Tool to help you configure SAN solutions, then use the HDS part numbers to enter the order in the HDS ordering system: http://www.cisco.com/order/apollo/configureHome.html</p> <p>HDS Suggested List Pricing</p> <p>HDS has priced the Cisco MDS 9513 Multilayer Director aggressively. Contact an HDS sales representative or authorized Channel Partner for the most up to date price information.</p>