You Know Better. Dell Knows How.

Dell Enterprise Servers, Storage and Networking

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Enterprise Strength, Industry Standards

Dell™ offers a complete product portfolio designed to drive down costs and help ensure interoperability. Each product adheres to extremely high levels of quality and reliability through rigorous engineering, manufacturing and testing processes. Dell keeps its industry-standard products at the forefront of quality. As proof of that, Dell has been recognized by *Technology Business Research* (TBR) as an industry leader in enterprise product quality. Dell has **ranked #1 in customer satisfaction** in Intel-Based Servers Satisfaction for 13 out of the last 14 quarters and 26 of the last 28 quarters.*

In addition, Dell also strives to deliver the best in relevant technology innovations developed through internal research and development and in collaborative partnerships with industry leaders in standards-based technology. The bottom line is a high-value, modular and scalable product portfolio from the desktop to the datacenter.

* Q3 2004 Corporate IT Buying Behavior & Customer Satisfaction Study, TBR, October 2004

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Dell PowerEdge Value Tower Servers

With their rapid transition to new technologies, Dell PowerEdge™ value tower servers focus on offering entry-level computing at direct prices. These servers are ideal for small organizations, where access to the latest technology at the right price is a necessity. The PowerEdge value tower server lineup satisfies the need for simple, powerful computing, direct to the customer.

Dell PowerEdge Performance Tower Servers

With a full line of configurations—from basic to high-end—Dell PowerEdge performance tower servers provide the flexibility and availability your enterprise needs. These servers are powerful and offer a range of useful features, such as hot-pluggable drives, tool-less chassis, multiple PCI slots and high-performance Intel® processors. And because Dell PowerEdge performance tower servers leverage industry-standard technology and the efficiency of the direct model, you're assured of receiving the right product at the right price, whether your needs are for a simple file/print server or for business-critical applications. At Dell, we call that value.

Dell PowerEdge Rack Servers

Dell PowerEdge rack servers help you make the most of your available datacenter space. By stacking your servers up instead of spreading them out, you save valuable enterprise real estate. And when datacenter costs are minimized, IT value goes up.

Dell PowerEdge rack servers are ideal for everything from thin-client computing and high-performance clusters to databases, intranets and e-mail. And to help you maximize your available space, Dell offers a full range of racks with enclosures for up to 42 Dell PowerEdge rack mount servers, up to 60 PowerEdge blade servers or up to 14 Dell PowerVault™ storage systems in less than seven square feet of data center floor space.

Dell PowerConnect Switches

Dell PowerConnect™ switches are based on industry standards, so they can be seamlessly integrated into your network and provide your enterprise with impressive new price/performance levels. PowerConnect switches are designed for high performance, reliability and interoperability. As an added bonus, they deliver outstanding value. No wonder so many customers are switching to Dell.

Dell PowerVault Tape Backup Products

Dell PowerVault tape backup products have been designed to provide the power you need to back up large amounts of data, the simplicity to easily manage your backups or restores and the investment protection you require as you grow your environment.

The PowerVault tape backup family includes internal and external tape drives, tape autoloaders to automate the backup process and tape libraries to allow for unattended backup and recovery. Regardless of your backup architecture, Dell can provide solutions for direct attached, LAN attached or SAN backup to help relieve your shrinking backup window and improve application and data availability.

Dell PowerVault NAS Server

Dell PowerVault Network Attached Storage (NAS) solutions help simplify your storage environment. They are designed to provide great flexibility by making centralized storage accessible across the local area network (LAN). The ease of use, multi-platform connectivity and overall value make them a great choice for any organization requiring dependable and flexible network storage.

NAS servers are self-contained, intelligent devices that attach directly to your existing LAN. A file system is located and managed directly on the networked storage device, and data is transferred to clients over industry-standard network protocols (TCP/IP) using industry-standard file-sharing protocols (SMB/CIFS, NCP, NFS, AFP or HTTP). These flexible, multiplatform devices can be easily and seamlessly integrated into your network, providing a dependable and affordable way to back up your critical data.

Dell|EMC SAN Storage

By partnering with EMC, Dell underscores its commitment to provide the best storage value in the industry. The Dell/EMC storage line is a comprehensive portfolio of hardware, software and services designed to protect your vital information. Simply, powerfully, affordably.

Dell/EMC products deliver exceptional data integrity, data throughput, storage expandability and connectivity features to help you meet your growing storage demands. Not only do you get great products, you also get the combined benefits of Dell and EMC best practices. For the services that accompany storage products, Dell has strengthened its existing award-winning service and support by deploying methodologies, tools and customer training programs from EMC. It's a simple idea, but a powerful one—collaborating with the industry leader to deliver end-to-end solutions more efficiently and affordably. And nobody does it as well as Dell.

Dell PowerEdge Servers

	DESCRIPTION	FORM FACTOR	BENEFITS	PROCESSOR(S)	RAM (min/max)	PCI SLOTS	DRIVE CONTROLLER	RAID CONTROLLER	INTEGRATED NIC	MAX INTERNAL STORAGE **	EXTERNAL STORAGE	AVAILABILITY FEATURES
SC420	Small Office/ Home Office Server	Tower	Combines value and the latest technology for the small business customer	Single Intel® Pentium® 4 processor at up to 3.6GHz or Intel Celeron® processor at up to 2.53GHz	256MB – 4GB ECC DDR-2 400/533 SDRAM	Five total: Two PCI Express™ (x8 & x1) Three 32-bit/33MHz, 5v PCI	Embedded dual channel SATA, optional Adaptec U320 (PCI)	CERC SATA 2s RAID 1, SCSI Software RAID	Embedded Broadcom® 5751 Gigabit* Ethernet controller	2 x 146GB (1") = 292GB SCSI 2 x 250GB (1") = 500GB SATA	Not available	Highly serviceable chassis, ECC memory, optional RAID, optional Tape Backup
SC1420	Small Office Server	Tower	High performance, affordably priced server designed to grow with your business	Up to two Intel Xeon™ processors with EM64T at up to 3.4GHz	256MB – 8GB ECC DDR-2 400 SDRAM	Six total: Two PCI Express (x4 & x8) Three 64-bit/100MHz, 3.3v PCI-X® One 32-bit/33MHz, 5v PCI	Embedded channel SATA	CERC SATA 2s CERC SATA 6ch SCSI Software RAID 1 PERC Ultra320	Embedded Intel Gigabit* NIC	4 x 146GB (1") = 584GB SCSI 4 x 250GB (1") = 1TB SATA	Not available	Highly serviceable chassis, ECC memory, optional RAID, optional Tape Backup
800	Basic Server	Tower	General-purpose server that provides many of the performance features found in higher-end systems	Single Intel Pentium 4 processor (2.8GHz, 3.2GHz, 3.6GHz or 3.8GHz) with EM64T on 3.2GHz, 3.6GHz and 3.8GHz processors or single Intel Celeron processor at up to 2.53GHz	256MB – 4GB ECC DDR-2 400/533 SDRAM	Five total: Two PCI Express (x1) Two 64-bit/100MHz, 3.3v PCI-X One 32-bit/33MHz, 5v PCI	Embedded four channel SATA, SCSI hard drives	PERC 4/DC PERC 4/SC CERC SATA 2s CERC SATA 6ch	Embedded Broadcom 5751 Gigabit* Ethernet controller	4 x 300GB (1") = 1.2TB*** SCSI 4 x 250GB (1") = 1TB SATA	SCSI storage systems	Highly serviceable chassis, ECC memory, hot-plug SCSI hard drives, non hot-plug SCSI EasyExchange™ hard drives, optional hardware or software SATA RAID, optional hardware RAID
1800	Value Tower	Tower or 5U rack	Delivers performance, scalability and availability at a value price	Up to two Intel Xeon processors with EM64T†† (32-bit/64-bit) at up to 3.6GHz	256MB – 12GB ECC DDR-2 SDRAM	Six total: Two 64-bit/100MHz PCI-X Two hot-plug PCI Express (x4 & x8) One 64-bit/66MHz PCI One 32-bit/33MHz, 5v PCI	Embedded Ultra320 LVD SCSI	PERC 4/SC PERC 4e/DC PERC 4/DC CERC SATA 6ch (HW) CERC SATA 2S (SW)	Embedded Intel Gigabit* NIC	6 x 300GB (1") = 1.8TB*** SCSI or 6 x 250GB (1") = 1.5TB SATA	SCSI and Fibre Channel storage systems	Easy-access chassis, configurable ECC memory with SDDC support, optional hot-plug redundant power supplies, Fibre Channel and SCSI cluster supports, ActiveID, validated for Dell/EMC SAN
2800	Performance Tower	Tower or 5U rack	Delivers high performance, scalability and availability for departmental applications	Up to two Intel Xeon processors with EM64T (32-bit/64-bit) at up to 3.6GHz	256MB – 12GB ECC DDR-2 SDRAM (16GB in Q1 2005†)	Seven total: Four 64-bit/133MHz PCI-X Two hot-plug PCI Express (x4 & x8) One 32-bit/33MHz, 5v PCI	Embedded dual channel Ultra320 LVD SCSI	PERC 4e/Di PERC 4/DC PERC 4e/DC	Dual embedded Intel Gigabit* NICs	8 x 300GB (1") + 2 x 300GB (1") = 3TB*** SCSI	SCSI and Fibre Channel storage systems	Easy-access chassis, configurable ECC memory with SDDC support, optional hot-plug redundant power supplies, hot-plug redundant cooling fans, standard hot-plug redundant cooling, hot-plug PCI Express slots, Fibre Channel and SCSI cluster supports, ActiveID, validated for Dell/EMC SAN
6600	High-end Server	Tower or 7U rack	Leading technology helps deliver higher levels of availability, scalability, performance and serviceability for business-critical applications	Up to four Intel Xeon processors MP at up to 3.0GHz	512MB – 32GB ECC DDR 226 SDRAM, 4-way interleaving	Eleven total: Ten 64-bit/100MHz PCI-X One 32-bit/33MHz PCI	Embedded Ultra3 Ultra160 SCSI	PERC 3/DC PERC 3/QC PERC 4/DC	Dual embedded Broadcom NetXtreme™ Gigabit* Ethernet	8 x 300GB (1") + 4 x 300GB (1") = 3.6TB*** SCSI	SCSI and Fibre Channel storage systems	Spare Bank and Memory Mirroring, optional RAID card, dual embedded NICs with failover and load balancing support, hot-plug redundant power and cooling, hot-plug hard drives, hot-plug PCI, high-availability Fibre Channel and SCSI cluster support
750	Workgroup/ Datacenter Server	1U rack	Brings excellent performance, expandability and deployment flexibility at a low cost in a minimum amount of space	Single Intel Pentium 4 processor at up to 3.4GHz or Intel Celeron processor at up to 2.4GHz	256MB – 4GB ECC DDR 400 SDRAM	Two total: One 64-bit/66MHz PCI-X One 32-bit/33MHz PCI	Embedded SATA controller, optional 39160 Ultra3 Ultra160 SCSI controller	CERC SATA PERC 4/SC PERC 4/DC	Dual embedded Intel Gigabit* NICs	2 x 300GB (1") = 600GB*** SCSI 2 x 250GB (1") = 500GB SATA	SCSI storage systems	ECC memory, optional RAID, dual embedded NICs with failover and load balancing support
SC1425	High Performance Ultra Rack-Dense Server	1U rack	Specifically tailored for the unique availability and manageability requirements of distributed cluster applications	Up to two Intel Xeon processors with EM64T (32-bit/64-bit) at up to 3.6GHz	256MB – 12GB ECC DDR-2 400 SDRAM	One total: One 64-bit/133MHz PCI-X	Optional 39320 SCSI adapter, single channel SATA, embedded SATA controller	CERC SATA 2S Ultra320 S/W RAID	Dual embedded Intel Gigabit* NICs	2 x 300GB (1") = 600GB††† SCSI 2 x 250GB (1") = 500GB SATA	Not available	ECC memory, RAID options, tool-less chassis, NIC teaming

*This term does not connote an actual operating speed of 1 GB/sec. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required. ** For hard drives, 1 GB means 1 billion bytes and 1 TB means 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less. *** Availability scheduled for Q4 2004. † With availability of the dual ranked 4GB DIMMs in Q1 2005. †† Support scheduled for Q1 2005. ††† Availability scheduled for Q1 2005.

Dell PowerEdge Servers

	DESCRIPTION	FORM FACTOR	BENEFITS	PROCESSOR(S)	RAM (min/max)	PCI SLOTS	DRIVE CONTROLLER	RAID CONTROLLER	INTEGRATED NIC	MAX INTERNAL STORAGE**	EXTERNAL STORAGE	AVAILABILITY FEATURES
1850	High Availability Ultra Rack-Dense Server	1U rack	High availability in an ultra-thin 1U form factor	Up to two Intel® Xeon™ processors with EM64T (32-bit/64-bit) at up to 3.6GHz	256MB – 12GB ECC DDR-2 SDRAM (16GB in Q1 2005†)	Two total: One 64-bit/133MHz PCI-X® One 64-bit/100MHz PCI-X or Two PCI Express™ (x4 & x8)	Embedded single channel Ultra320 SCSI	PERC 4e/Si PERC 4/SC PERC 4/DC PERC 4e/DC	Dual embedded Intel Gigabit* NICs	2 x 300GB (1") = 600GB*** SCSI	SCSI and Fibre Channel storage systems	Spare Bank configurable ECC memory with SDDC, single channel optional embedded Ultra320 RAID with battery backed 256MB cache, hot-plug hard drives, redundant fans and optional hot-plug redundant power supplies, dual embedded NICs with failover and load balancing support, optional slot-free DRAC 4/si, standard baseboard management controller (IPMI 1.5 compliant)
1855	High Performance Blade Server	7U enclosure holds up to 10 blade servers	Complete server class features combined with a density and price advantage over traditional Dell 1U rack servers	Up to two Intel Xeon processors with EM64T (32-bit/64-bit)	512MB – 8GB ECC DDR-2 400 SDRAM (16GB in Q1 2005†)	Not available (optional daughtercard available for flexible I/O options)	Embedded single channel Ultra320 SCSI	PERC 4/im (RAID 1)	Dual port embedded Intel Gigabit* NIC	2 x 146GB (1") = 292GB SCSI	Fibre Channel storage systems	ECC memory with two-way interleaving and SDDC (Single Device Data Correction) support, optional hot-plug redundant power, cooling and I/O modules, dual port embedded Gigabit NIC with failover and load balancing support, Fibre Channel connectivity and other I/O technologies, validated for Dell/EMC SAN
2850	Performance and Availability with Configuration Flexibility	2U rack	High performance and availability in a rack-dense 2U form factor	Up to two Intel Xeon processors with EM64T (32-bit/64-bit) at up to 3.6GHz	256MB – 12GB ECC DDR-2 SDRAM (16GB in Q1 2005†)	Three total: Three 64-bit/133MHz PCI-X or Two PCI Express (x4 & x8) One 64-bit/100MHz PCI-X	Embedded dual channel Ultra320 SCSI	PERC 4e/Di PERC 4/DC PERC 4e/DC	Dual embedded Intel Gigabit* NICs	6 x 300GB (1") = 1.8TB*** SCSI	SCSI and Fibre Channel storage systems	Spare Bank configurable ECC memory with SDDC, optional dual channel embedded Ultra320 RAID with 256MB battery-backed cache, optional hot-plug redundant power supplies, hot plug redundant cooling fans, hot-plug hard drives, high-availability Fibre Channel and SCSI cluster support, standard baseboard management controller (IPMI 1.5 compliant)
3250	High Performance Computing Clusters	2U rack	Excellent performance and scalability for high-performance computing clusters	Up to two Intel Itanium® 2 processors at up to 1.6GHz	1GB – 16GB DDR SDRAM	Three total: Two 64-bit/100MHz PCI-X One 64-bit/133MHz PCI-X	Embedded dual channel Ultra320 SCSI	PERC 4/im PERC 3/DC PERC 4/DC	Dual embedded Intel Gigabit* Ethernet	2 x 300GB (1") = 600GB*** SCSI	SCSI storage systems	Hot-plug, redundant power (optional) and cooling, including variable speed fans; advanced memory protection features such as ECC, memory scrubbing, Memory Device Failure Recovery, Front KVM ports for quick crash cart access; dual embedded NICs with failover and load balancing support
6650	Enterprise Availability Server	4U rack	High levels of performance and scalability for business-critical computing	Up to four Intel Xeon processors MP at up to 3.0GHz	512MB – 32GB ECC DDR 226 SDRAM, 4-way interleaving	Eight total: Seven 64-bit/100MHz PCI-X One 32-bit/33MHz	Embedded dual channel Ultra3 Ultra160 SCSI	PERC 4/DC PERC 3/DC PERC 3/QC	Dual embedded Broadcom® NetXtreme™ Gigabit* Ethernet	5 x 300GB (1") = 1.5TB*** SCSI	SCSI and Fibre Channel storage systems	Spare Bank configurable ECC memory with SDDC, optional RAID card, dual embedded NICs with failover and load balancing support, hot-plug redundant power supplies and fans, hot-plug hard drives, hot-plug PCI, high-availability Fibre Channel and SCSI cluster support
7250	High Performance Enterprise Server	4U rack	High levels of performance and scalability for business-critical 64-bit computing	Up to four Intel Itanium 2 processors at up to 1.6GHz	512GB – 32GB ECC DDR SDRAM	Eight total: Five 64-bit/100MHz PCI-X Three 64-bit/133MHz PCI-X	Embedded dual channel Ultra320 SCSI	PERC 4/DC	Embedded Intel Gigabit* NIC	3 x 300GB (1") = 900GB*** SCSI	SCSI and Fibre Channel storage systems	Highly serviceable modular chassis featuring hot-plug redundant power (optional) and cooling, hot-plug hard drives, ECC memory, and high-availability clustering support with external storage

Dell PowerEdge Oracle Database and Application Solutions

DESCRIPTION	FORM FACTOR	SOFTWARE COMPONENTS	BENEFITS	Oracle10*g* AND Oracle9*i* TESTED AND SUPPORTED CONFIGURATIONS	MANAGEABILITY	TESTED AND SUPPORTED HARDWARE
Database Appliance **Oracle10*g* and Oracle9*i*™ Database Tested and Supported Configurations**						
Range of tested and supported, fully integrated Oracle database server and storage solutions for maximum performance, interoperability and reliability	Tower or rack	Red Hat® Enterprise Linux® 2.1 (Oracle 9*i*) and 3 (Oracle 10*g*) Advanced Server Oracle software: Oracle 9*i* and Oracle 10*g* Database Enterprise Edition with RAC Option	• Low-cost alternative to proprietary RISC architecture • Tested for interoperability • Configured for performance • Easy to install and manage • Fully supported by Dell††	Dell tested and supported configurations are an optimal way of deploying Oracle databases, either as a single node or a parallel database cluster. Dell tested and supported configurations are a model of computing designed to remove complexity, reduce total cost of ownership (TCO) and render soft costs predictable through standardization.	Dell tested and supported configurations are an open infrastructure and support Dell OpenManage™ and other third-party management tools running on Windows or Linux. Dell tested and supported configurations are also the baseline for Oracle online services, with advanced management features available through Oracle Enterprise Manager.	Dell servers and storage. Visit **www.dell.com/oracle** for supported configurations
Database Appliance **Oracle10*g* and Oracle9*i* RAC Tested and Supported Configurations**						
Range of tested and supported, integrated and pre-installed Oracle9*i* database server and storage solutions for maximum performance, interoperability and reliability	Tower or rack	Red Hat Enterprise Linux 2.1 (Oracle 9*i*) and 3 (Oracle 10*g*) Advanced Server Oracle software: Oracle 9*i* and Oracle 10*g* Database Enterprise Edition with RAC Option	• Low-cost alternative to proprietary RISC architecture • Tested for interoperability • Configured for performance • Easy to install and manage • Fully supported by Dell††	Dell tested and supported configurations are an optimal way of deploying Oracle databases, either as a single node or a parallel database cluster. Dell tested and supported configurations are a model of computing designed to remove complexity, reduce total cost of ownership (TCO) and render soft costs predictable through standardization.	The Oracle9*i* RAC configurations from Dell feature raw devices and the Oracle Cluster File System option tested by Dell and Oracle. Dell tested and supported configurations are an open infrastructure and support Dell OpenManage and other third-party management tools running on Windows or Red Hat Enterprise Linux. Dell tested and supported configurations are also the baseline for Oracle online services, with advanced management features available through Oracle Enterprise Manager.	Dell servers and storage. Visit **www.dell.com/oracle** for supported configurations
Database Appliance **Oracle10*g* Standard Edition One Tested and Supported Configurations**						
Entry-level Oracle10*g* database solution, factory installed on select Dell servers	Tower or rack	Red Hat Enterprise Linux 3 ES and Microsoft® Windows® 2003 SE Oracle software: Oracle 10*g* Database SE1	• Pre-integrated, pre-installed • Fully supported by Dell††	Dell tested and supported configurations are an optimal way of deploying Oracle databases, either as a single node or a parallel database cluster. Dell tested and supported configurations are a model of computing designed to remove complexity, reduce total cost of ownership (TCO) and render soft costs predictable through standardization.	The Oracle9*i* RAC configurations from Dell feature raw devices and the Oracle Cluster File System option tested by Dell and Oracle. Dell tested and supported configurations are an open infrastructure and support Dell OpenManage and other third-party management tools running on Windows or Red Hat Enterprise Linux. Dell tested and supported configurations are also the baseline for Oracle online services, with advanced management features available through Oracle Enterprise Manager.	Dell servers and storage. Visit **www.dell.com/oracle** for supported configurations

*This term does not connote an actual operating speed of 1 GB/sec. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required. ** For hard drives, 1 GB means 1 billion bytes and 1 TB means 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less. *** Availability scheduled for Q4 2004. † With availability of the dual ranked 4GB DIMMs in Q1 2005. †† For Dell validated configurations (see http://www.dell.com/oracle_validated_configs) with Dell and Oracle support contracts, Dell technicians can resolve known issues and escalate new issues within Dell and Oracle.

Dell PowerConnect Switches

MANAGED SWITCHES

		DESCRIPTION	BENEFITS	PORT CONFIGURATION	SWITCHING CAPACITY	VLAN	AVAILABILITY	QUALITY OF SERVICE	SECURITY	SWITCHING FEATURES	MANAGEMENT	FORM FACTOR
3324	FAST ETHERNET	Stackable Fast Ethernet switch with advanced management and multi-layer Class of Service features	High-performance switch solution with advanced management and security features to meet the workgroup connectivity needs of medium to large organizations	24 10/100 ports plus 2 10/100/1000 ports, 2 SFP fiber slots (combo)	8.8Gb/s	IEEE 802.1Q tagging and port-based, up to 247 VLANs, dynamic VLAN (GVRP)	Spanning Tree, Rapid Spanning Tree, dual firmware images and configuration files, external redundant power with PowerConnect RPS-600 (optional)	IEEE 802.1p tagging and port-based priority with four queues per port; L3 priority based on DiffServ (DSCP); L4 priority based on TCP/UDP port	MAC-based port security; RADIUS authentication; SSL/SSH management traffic encryption; SNMP access filtering; Layer 2/3/4 based Access Control Lists	Link aggregation with LACP support; port mirroring; IGMP snooping; static IP multicast	Auto-negotiation, industry-standard CLI, embedded Web server, SNMP-based management applications	1U, rack mounting kit included
3348	FAST ETHERNET	Rack-dense, stackable Fast Ethernet switch with advanced management and multi-layer Class of Service features	High-performance switch solution with advanced management features to meet the workgroup connectivity needs of medium to large organizations	48 10/100 BaseT ports plus 2 10/100/1000 BaseT ports with 2 SFP fiber slots (combo)	13.6Gb/s	IEEE 802.1Q tagging and port-based, up to 247 VLANs, dynamic VLAN (GVRP)	Spanning Tree, Rapid Spanning Tree, dual firmware images and configuration files, external redundant power with PowerConnect RPS-600 (optional)	IEEE 802.1p tagging and port-based priority with four queues per port; L3 priority based on DiffServ (DSCP); L4 priority based on TCP/UDP port	MAC-based port security; RADIUS authentication; SSL/SSH management traffic encryption; SNMP access filtering; Layer 2/3/4 based Access Control Lists	Link aggregation with LACP support; port mirroring; IGMP snooping; static IP multicast	Auto-negotiation, industry-standard CLI, embedded Web server, SNMP-based management applications	1U, rack mounting kit included
5324	GIGABIT ETHERNET	High-density Gigabit Ethernet switch with advanced security capabilities and enterprise-class management features	High-performance, secure Gigabit Ethernet switching for edge connectivity and L2 aggregation layer solutions that require advanced switching features	24 10/100/1000 BaseT ports, 4 SFP fiber slots	48Gb/s	IEEE 802.1Q tagging and port-based, protocol-based VLANs, up to 247 VLANs, dynamic VLAN (GVRP)	Spanning Tree, Rapid Spanning Tree (IEEE 802.1w), broadcast storm control, external redundant power with PowerConnect RPS-600 (optional)	IEEE 802.1p tagging and port-based priority with four queues per port; L2 & L3 priority based on DiffServ (DSCP)	Edge authentication (802.1x), MAC-based port security, RADIUS and TACACS authentication, SSL/SSH management traffic encryption, SNMP access filtering	Link aggregation with LACP support; port mirroring; IGMP snooping; static IP multicast	Auto-negotiation, industry-standard CLI, embedded Web server, SNMP-based management applications	1U, rack mounting kit included
6024	LAYER 3 GIGABIT ETHERNET	Gigabit Ethernet routing switches offering Layer 3 protocol support, high-availability features, flexible copper/fiber connectivity, and advanced Quality of Service and management tools	Wire-speed Layer 3 routing for resilient, highly available datacenter server connectivity or for core switching applications in small business or branch office networks	24 10/100/1000 ports, 8 SFP fiber combo slots	48Gb/s	IEEE 802.1Q tagging and port-based, up to 4,063 VLANs, dynamic VLAN (GVRP)	Spanning Tree, Rapid Spanning Tree, dual firmware images and configuration files, dual internal hot-swappable power and fans, integrated cable tester	IEEE 802.1p tagging and port-based priority with eight queues per port; L3 priority based on DiffServ (DSCP); L4 priority based on TCP/UDP port; advanced mode for flow-based policies	MAC-based port security; RADIUS authentication; SSL/SSH management traffic encryption; SNMP access filtering; Layer 2/3/4 based Access Control Lists	Static routes; RIP v1/v2; OSPF v1/v2; VRRP; DVMRP; link aggregation with LACP support; port mirroring; IGMP snooping; static IP multicast	Industry-standard CLI, embedded Web server, out-of-band management port, OpenManage Network Manager	1U, rack mounting kit included
6024F	LAYER 3 GIGABIT ETHERNET	Gigabit Ethernet routing switches offering Layer 3 protocol support, high-availability features, flexible copper/fiber connectivity, and advanced Quality of Service and management tools	Wire-speed Layer 3 routing for wiring closet switch aggregation layer or for core switching applications in small business or branch office networks	24 SFP fiber slots, 8 10/100/1000 combo ports	48Gb/s	IEEE 802.1Q tagging and port-based, up to 4,063 VLANs, dynamic VLAN (GVRP)	Spanning Tree, Rapid Spanning Tree, dual firmware images and configuration files, dual internal hot-swappable power and fans, integrated cable tester	IEEE 802.1p tagging and port-based priority with eight queues per port; L3 priority based on DiffServ (DSCP); L4 priority based on TCP/UDP port; advanced mode for flow-based policies	MAC-based port security; RADIUS authentication; SSL/SSH management traffic encryption; SNMP access filtering; Layer 2/3/4 based Access Control Lists	Static routes; RIP v1/v2; OSPF v1/v2; VRRP; DVMRP; link aggregation with LACP support; port mirroring; IGMP snooping; static IP multicast	Industry-standard CLI, embedded Web server, out-of-band management port, OpenManage Network Manager	1U, rack mounting kit included

UNMANAGED SWITCHES

		DESCRIPTION	BENEFITS	PORT CONFIGURATION	SWITCHING CAPACITY	VLAN	QUALITY OF SERVICE	FORM FACTOR
2216	FAST ETHERNET	Unmanaged Fast Ethernet switch with wire-speed performance	Economical plug-and-play simplicity for basic workgroup connectivity	16 10/100 ports	3.2Gb/s	4,000	IEEE 802.1p priority, tag-based, two queues per port, Weighted Round Robin Scheduling	1U, rack/desktop/wall mounting
2224	FAST ETHERNET	Unmanaged Fast Ethernet switch with wire-speed performance	Economical plug-and-play simplicity for basic workgroup connectivity	24 10/100 ports	4.8Gb/s	4,000	IEEE 802.1p priority, tag-based, two queues per port, Weighted Round Robin Scheduling	1U, rack/desktop/wall mounting
2324	FAST ETHERNET	Unmanaged Fast Ethernet switch with built-in Gigabit Ethernet uplinks and wire-speed performance	Cost-effective workgroup connectivity with high-speed traffic aggregation to a server or backbone switch	24 10/100/1000 ports, 1 Gigabit Ethernet port	8.8Gb/s	4,000	IEEE 802.1p priority, tag-based, two queues per port, Weighted Round Robin Scheduling	1U, rack/desktop/wall mounting
2608	GIGABIT ETHERNET	Unmanaged Gigabit Ethernet switch with wire-speed performance	Affordable Gigabit connectivity for workgroups, server aggregation or bandwidth-intensive applications	8 10/100/1000 ports	16Gb/s	4,000	IEEE 802.1p priority, tag-based, two queues per port, Weighted Round Robin Scheduling	1U, rack/desktop/wall mounting
2616	GIGABIT ETHERNET	Unmanaged Gigabit Ethernet switch with wire-speed performance	Affordable Gigabit connectivity for workgroups, server aggregation or bandwidth-intensive applications	16 10/100/1000 ports	32Gb/s	4,000	IEEE 802.1p priority, tag-based, two queues per port, Weighted Round Robin Scheduling	1U, rack/desktop/wall mounting
2624	GIGABIT ETHERNET	Unmanaged Gigabit Ethernet switch with wire-speed* performance and fiber uplink	Affordable Gigabit connectivity for workgroups, server aggregation or bandwidth-intensive applications	24 10/100/1000 ports, 1 SFP fiber combo slot	48Gb/s	4,000	IEEE 802.1p priority, tag-based, two queues per port, Weighted Round Robin Scheduling	1U, rack/desktop/wall mounting

* In internal testing by Dell Labs in January 2004, Model 2624 passed 99.96% of 512 to 1518 byte packets for Gigabit links in full-mesh testing per RFC2889 "Benchmarking Methodology for LAN Switching Devices," and passed 100% of lower byte packet sizes.

Dell PowerVault Tape Backup Systems

	TYPE	MODEL	MEDIA	NATIVE CAPACITY	COMPRESSED CAPACITY*	NATIVE TRANSFER RATE	COMPRESSED TRANSFER RATE*	NATIVE BACKUP RATE	COMPRESSED BACKUP RATE*	RECOMMENDED SERVER CAPACITY**	SERVER ENVIRONMENT	SOFTWARE SUPPORTED
100T	Travan 40 Tape Drive	Internal	Travan™ 40 cartridges	20GB	40GB	2MB/s	4MB/s	7.2GB/hr	14.4GB/hr	Up to 40GB	PowerEdge SC servers only	Dell Tape Backup Software (VERITAS® Backup Exec™ and Yosemite™ TapeWare®)
	DAT72 Tape Drive	Internal/External	4mm DAT72 cartridges	36GB	72GB	3.5MB/s	7MB/s	12.6GB/hr	25.2GB/hr	Up to 72GB	Departmental servers	Dell Tape Backup Software (VERITAS Backup Exec and Yosemite TapeWare)
110T	DLT VS160 Tape Drive	Internal/External	DLTtape™ VS1 cartridges	80GB	160GB	8MB/s	16MB/s	28.8GB/hr	57.6GB/hr	Up to 160GB	Enterprise/ Departmental servers and NAS	Dell Tape Backup Software (VERITAS Backup Exec and Yosemite TapeWare)
	SDLT 320 Tape Drive	Internal/External	22 Write/Read – SDLTtape™ 1 Read – DLTtape IV cartridges	160GB	320GB	16MB/s	32MB/s	57.6GB/hr	115GB/hr	Up to 320GB	Enterprise servers and midrange NAS	Dell Tape Backup Software (VERITAS Backup Exec and Yosemite TapeWare)
	LTO™-1 Tape Drive	Internal/External	Ultrium™ LTO™ format cartridges	100GB	200GB	15MB/s	30MB/s	54GB/hr	108GB/hr	Up to 200GB	Enterprise servers and midrange NAS	Dell Tape Backup Software (VERITAS Backup Exec and Yosemite TapeWare)
	LTO-2 Tape Drive	Internal/External	Ultrium 2 LTO format cartridges	200GB	400GB	35MB/s	70MB/s	126GB/hr	252GB/hr	Up to 400GB	Enterprise servers and midrange NAS	Dell Tape Backup Software (VERITAS Backup Exec and Yosemite TapeWare)
114T	DAT72 Tape Drive	External rack mount	Up to 2 4mm DAT72 cartridges	72GB (with two drives)	144GB (with two drives)	3.5MB/s (per drive)	7MB/s (per drive)	12.6GB/hr (per drive)	25.2GB/hr (per drive)	Up to 144GB	PowerEdge and PowerVault NAS rack servers	Dell Tape Backup Software (VERITAS Backup Exec and Yosemite TapeWare)
	DLT VS160 Tape Drive	External rack mount	Write/Read – Up to 2 DLTtape VS1 data cartridges Read – Up to 2 DLTtape IV cartridges	160GB (with two drives)	320GB (with two drives)	8MB/s (per drive)	16MB/s (per drive)	28.8GB/hr (per drive)	57.6GB/hr (per drive)	Up to 320GB	PowerEdge and PowerVault NAS rack servers	Dell Tape Backup Software (VERITAS Backup Exec and Yosemite TapeWare)
	SDLT 320 Tape Drive	External rack mount	Write/Read – SDLTtape1 Read – DLTtape IV cartridges	320GB (with two drives)	640GB (with two drives)	16MB/s (per drive)	32MB/s (per drive)	57.6GB/hr (per drive)	115GB/hr (per drive)	Up to 640GB	PowerEdge and PowerVault NAS rack servers	Dell Tape Backup Software (VERITAS Backup Exec and Yosemite TapeWare)
	LTO-1 Tape Drive	External rack mount	Ultrium LTO format cartridges	200GB (with two drives)	400GB (with two drives)	15MB/s (per drive)	30MB/s (per drive)	54GB/hr (per drive)	108GB/hr (per drive)	Up to 400GB	PowerEdge and PowerVault NAS rack servers	Dell Tape Backup Software (VERITAS Backup Exec and Yosemite TapeWare)
	LTO-2 Tape Drive	External rack mount	Ultrium 2 LTO format cartridges	400GB (with two drives)	800GB (with two drives)	35MB/s (per drive)	70MB/s (per drive)	126GB/hr (per drive)	256GB/hr (per drive)	Up to 800GB	PowerEdge and PowerVault NAS rack servers	Dell Tape Backup Software (VERITAS Backup Exec and Yosemite TapeWare)
122T	DLT VS80 Autoloader	External rack mount	Up to 8 DLTtape IV cartridges	320GB	640GB	3MB/s	6MB/s	10.8GB/hr	21.6GB/hr	Up to 640GB	Departmental/ Enterprise servers and NAS	Dell Tape Backup Software (VERITAS Backup Exec, VERITAS NetBackup™ and Yosemite TapeWare)
	LTO-1 Tape Library	External rack mount	Up to 8 LTO Ultrium cartridges	800GB	1.6TB	15MB/s	30MB/s	54GB/hr	108GB/hr	Up to 1.6TB	Departmental/ Enterprise servers and NAS	Dell Tape Backup Software (VERITAS Backup Exec, VERITAS NetBackup and Yosemite TapeWare)
	SDLT 320 Tape Library	External rack mount	Up to 8 SDLTtape cartridges	1.3TB	2.6TB	16MB/s	32MB/s	57.6GB/hr	115GB/hr	Up to 2.6TB	Departmental/ Enterprise servers and NAS	Dell Tape Backup Software (VERITAS Backup Exec, VERITAS NetBackup and Yosemite TapeWare)
	LTO-2 Tape Library	External rack mount	Up to 8 LTO Ultrium cartridges	1.6TB	3.2TB	35MB/s	70MB/s	63GB/hr	126GB/hr	Up to 3.2TB	Departmental/ Enterprise servers and NAS	Dell Tape Backup Software (VERITAS Backup Exec, VERITAS NetBackup and Yosemite TapeWare)
132T	LTO-2 Tape Library	External rack mount	Up to 2 Ultrium 2 LTO tape drives; Up to 24 Ultrium 2 LTO cartridges	4.8TB	9.6TB	70MB/s	140MB/s	252GB/hr	504GB/hr	Up to 9.6TB	LAN and SAN backup	Dell Tape Backup Software (VERITAS Backup Exec and VERITAS NetBackup)
	SDLT 320 Tape Library	External rack mount	Up to 2 SDLT 320 tape drives; Up to 21 SDLT tape cartridges	3.3TB	6.6TB	32MB/s	64MB/s	115GB/hr	230GB/hr	Up to 6.6TB	LAN and SAN backup	Dell Tape Backup Software (VERITAS Backup Exec and VERITAS NetBackup)
136T	LTO-2 Tape Library	External rack mount	Up to 6 Ultrium 2 LTO tape drives; Up to 72 cartridges	14TB	28TB	210MB/s	420MB/s	756GB/hr	1,512GB/hr	Up to 28TB	LAN and SAN backup	Dell Tape Backup Software (VERITAS Backup Exec and VERITAS NetBackup)
	SDLT 320 Tape Library	External rack mount	Up to 6 SDLT 320 tape drives; Up to 60 SDLT tape cartridges	9.6TB	19.2TB	96MB/s	192MB/s	345.6GB/hr	691.2GB/hr	Up to 19.2TB	LAN and SAN backup	Dell Tape Backup Software (VERITAS Backup Exec and VERITAS NetBackup)
160T	LTO-2 Tape Library	Control module: 19" floor standing rack cabinet	Up to 12 Ultrium 2 LTO tape drives; Up to 264 cartridges	52.8TB	105.6TB	420MB/s	840MB/s	1.5TB/hr	3TB/hr	Up to 105.6TB	LAN and SAN backup	Dell Enterprise Tape Backup Software (VERITAS NetBackup)
	LTO-2 Tape Library	Expansion module: 19" floor standing rack cabinet (up to 3 expansion modules per control module)	Up to 12 Ultrium 2 LTO tape drives; 180 or 360 cartridges	72TB	144TB	420MB/s	840MB/s	1.5TB/hr	3TB/hr	Up to 144TB	LAN and SAN backup	Dell Enterprise Tape Backup Software (VERITAS NetBackup)

* Assumes 2:1 compression; data compression rate may vary.
** Multiple drives can be combined to protect larger servers.

Dell PowerVault Network Attached Storage (NAS)

	FORM FACTOR	DISK SPEED	DRIVES*	RAID	MAX INTERNAL STORAGE CAPACITY	MAX EXTERNAL STORAGE CAPACITY	NETWORK TYPES SUPPORTED	COMMUNICATIONS PROTOCOLS SUPPORTED	NETWORK CLIENT TYPES SUPPORTED	SERVER EMULATION	SNAPSHOT COPY	EXPANDABILITY
745N	Microsoft® Windows® Storage Server 2003: 1U rack option	SATA 7,200 rpm	40GB, 80GB, 120GB or 250GB SATA hard drives	0, 1, 5	Up to 1TB	Up to 16TB (External HW RAID config)	CIFS/SMB, NFS, NCP, AFP (Apple), HTTP 1.0, WebDAV	TCP/IP, UDP/IP, IPX, FTP, SNMP, SMTP	Microsoft Windows 95/98/2000, Windows NT™, Windows XP™ Home, Windows XP Professional, Novell® intraNetWare® clients for Windows, Sun™ OS and Solaris™, SCO UNIX™, Red Hat® Enterprise Linux®, Macintosh® System OS	Microsoft Windows 2000, Novell NetWare 3.12, Macintosh AppleShare® 6.0, NFS 2.0 and 3.0	Volume Shadow Copy Service	8TB with the addition of 2 PV220S enclosures

Dell EMC Storage Arrays Direct Attach and Storage Area Network (SAN)

	FORM FACTOR	HARD DRIVES*	MAX DRIVES PER SUBSYSTEM	MAX STORAGE CAPACITY	PERFORMANCE	MAX CACHE	CONNECTION	REDUNDANCY
AX100	Enclosure: 2U Uninterrupted Power Supply: 1U	160GB or 250GB SATA	12	3TB with SATA drives	N/A	512MB	Optical	Power supplies, cooling, and controllers
CX300	Disk Processor Enclosure: 3U Disk Array Enclosure: 3U	36GB, 73GB, 146GB FC2 or 320GB ATA	60	8.8TB with Fibre Channel drives or 16.5TB with ATA drives	680MB/s, 50,000 I/Os per second	2GB	Optical	Hot-plug power supplies, cooling, drives and controllers
CX500	Disk Processor Enclosure: 3U Disk Array Enclosure: 3U	36GB, 73GB, 146GB FC2 or 320GB ATA	120	17.5TB with Fibre Channel drives or 35.7TB with ATA drives	760MB/s, 120,000 I/Os per second	4GB	Optical	Hot-plug power supplies, cooling, drives and controllers
CX700	Disk Processor Enclosure: 3U Disk Array Enclosure: 3U	36GB, 73GB, 146GB FC2 or 320GB ATA	240	35TB with Fibre Channel drives or 74.2TB with ATA drives	1,500MB/s, 200,000 I/Os per second	8GB	Optical	Hot-plug power supplies, cooling, drives and controllers

Dell PowerVault Direct Attach Storage Array

	TYPE	FORM FACTOR	HARD DRIVES*	DRIVE BAYS	MAX CAPACITY	REDUNDANCY	RAID CONTROLLER
220S	SCSI	3U rack	18GB, 36GB, 73GB, 146GB and 300GB	14 hot-plug 1" bays	4,088GB per enclosure	Hot-plug power supplies, cooling fans and hard drives, Microsoft Cluster Server (MSCS) certification and support	Server-based PowerEdge RAID controller cards
221S	SCSI	Tower	18GB, 36GB, 73GB, 146GB and 300GB	14 hot-plug 1" bays	4,088GB per enclosure	Hot-plug power supplies, cooling fans and hard drives, Microsoft Cluster Server (MSCS) certification and support	Server-based PowerEdge RAID controller cards

* For hard drives, 1 GB means 1 billion bytes; actual capacity varies with preloaded material and operating environment and will be less.

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