

DELL POWERCONNECT 6200 SERIES SWITCHES



The PowerConnect™ 6200 series is Dell's most advanced switching product line, offering advanced switching capabilities including high density, high performance stacking and 10Gigabit Ethernet capabilities scalable from the small business to the Enterprise Edge.

High Density

The PowerConnect 6200 series will offer versions with 24 and 48 ports of 10/100/1000BASE-T Gigabit Ethernet. Delivering significant rack density, the PowerConnect 6200 gives users the flexibility to maximize server and workstation connectivity in a 1U form factor. Up to 576 servers and/or clients can be connected in a stack of 6200 series switches to help provide the maximum density, flexibility and manageability.

High Performance Stacking

The PowerConnect 6200 series supports high performance resilient stacking up to twelve systems, which allows increased throughput to be added as needed without affecting network performance. With each switch supporting up to 232Gbps in switch capacity, the customer can have almost 3 Terabytes of capacity in a single stack!

10 Gigabit Ethernet

The PowerConnect 6200 series switches support up to four 10 Gigabit Ethernet uplinks for connectivity directly to 10GE routers, enterprise backbones and data centers.

Advanced Layer 3 Capabilities

The PowerConnect 6200 series supports advanced Layer 3 routing and multicast protocols to help reduce congestion and manage traffic in the network. The PowerConnect 6200 series supports frequently used LAN routing protocols such as RIPv1/v2, OSPFv2/v3, VRRP, IGMP, DVMRP and PIM.

Advanced QoS

The PowerConnect 6200 offers flexibility in Quality of Service (QoS) by giving network administrators the ability to prioritize time-critical network traffic based on a variety of user-defined criteria. Administrators can expedite traffic based on L2 or L3 information, such as IP ToS, and provide greater control over traffic flow within the network.

Advanced Security

Support for up to 1024 L2-L4 Access Control Lists (ACLs) on the switch allows the user to perform deep packet inspection. 802.1x port authentication offers both single and multiple host access. Further security is provided through Denial of Service (DoS) Attack Prevention, whereby the switch can protect against common network attacks, such as Blat, Land, Smurf, Ping of Death, Xmascan, Nullscan, Scan SYNFIN, in addition to CPU attacks, such as VLAN flooding, TCP SIM, TCP port scan, IP address Spoofing and MAC address spoofing.

IPv6 Ready

IPv6 is version six of the "Internet Protocol" that has been in development for over 20 years. IPv6 has been designed to address IP address limitations of previous version of the Internet Protocol, enabling an increased number of unique IP addresses for broader scalability worldwide now and in the future.

Value and Flexibility

The PowerConnect 6200 series offers additional value because the unique modular design allows you to upgrade to advanced stacking or 10Gigabit Ethernet only when you need it. Plus we offer further flexibility and value with the optional modules that allow for either 10Gigabit optical or CX-4 copper interfaces, or both, based on your needs.



Front view of Dell PowerConnect 6248



Rear view of Dell PowerConnect 6224/6248 with stacking and 10GE modules shown (Modules optional)





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DELL IT INFRASTRUCTURE SERVICES

Dell brings absolute execution to IT Services. The planning, implementation and maintenance of your IT infrastructure deserves nothing less. Variability in execution can compromise user productivity, IT resources and ultimately, your reputation. By leveraging our heritage of process driven excellence, Dell Services can deliver a smarter way. We don't claim to do everything. We focus on IT infrastructure services. And we take a customer led approach, grounded in the philosophy that you know your business better than anyone.

That's why Dell does not try to take key business decisions out of your hands, or lock you into more than you need. Instead, we apply our world-class process management and "no excuses" culture to deliver what customers today most need – flexibility and repeatable quality. That's absolute execution. That's Dell.

Assessment, Design and Implementation Services

IT departments are continually challenged to evaluate and implement new technologies. Dell's assessment, design and implementation services can restructure your IT environment to enhance performance, scalability and efficiency while helping to maximize your return on investment and minimize disruption to your business.

Deployment Services

System deployment is a necessary evil that plagues nearly every organization. You must deploy new systems to help improve performance and meet user demand. With Dell's deployment services, we help simplify and speed up the deployment and utilization of new systems to maximize uptime throughout your IT environment.

Asset Recovery and Recycling Services

Proper disposal, reselling and donation of computer equipment is a time-consuming task that typically falls to the bottom of many IT to-do lists. Dell simplifies the end of life processes for IT equipment in a way that can maximize value for customers.

Training Services

Arm your employees with the knowledge and skills they need to be as productive as possible. Dell offers comprehensive training services which include hardware and software training, as well as PC skills and professional development classes. With Dell training you can help improve system reliability, maximize productivity and reduce end user requests and downtime.

Enterprise Support Services

With Dell, you can get maximum performance and availability of your Dell server and storage systems. Our Enterprise Support services offer proactive maintenance to help prevent problems as well as rapid response and resolution of problems when they do occur. We have built a robust global infrastructure that offers multiple levels of enterprise support for systems throughout your infrastructure. To help you get the most from your Dell systems, visit www.dell.com/services.

Services vary by region.

FEATURES	Dell™ PowerConnect™ 6224	Dell™ PowerConnect™ 6248
Port attributes	24 10/100/1000BASE-T auto-sensing Gigabit Ethernet switching ports; 4 SFP combo ports for fiber media support; 10 Gigabit Ethernet uplink modules (optional); 48Gbps Stacking module (optional); Auto-negotiation for speed, duplex mode and flow control; Auto MDI/MDIX; Port mirroring; Flow-based port mirroring; Broadcast storm control	48 10/100/1000BASE-T auto-sensing Gigabit Ethernet switching ports; 4 SFP combo ports for fiber media support; 10 Gigabit Ethernet uplink modules (optional); 48Gbps Stacking module (optional); Auto-negotiation for speed, duplex mode and flow control; Auto MDI/MDIX; Port mirroring; Flow-based port mirroring; Broadcast storm control
Performance	Switch Fabric Capacity 136 Gb/s Forwarding Rate 95 Mpps Up to 8,000 MAC Addresses 256MB of CPU SDRAM 32MB of Flash Memory	Switch Fabric Capacity 232 Gb/s Forwarding Rate 131 Mpps Up to 8,000 MAC Addresses 256MB of CPU SDRAM 32MB of Flash Memory
Availability	Spanning Tree (IEEE 802.1D) and Rapid Spanning Tree (IEEE 802.1w) with Fast Link Support; Multiple spanning trees (IEEE 802.1s); Supports Virtual Redundant Routing Protocol (VRRP); External redundant power support with PowerConnect RPS-600 (sold separately); Cable diagnostics; SFP transceiver diagnostics	
Layer 3 routing protocols	Static Routes; Routing Information Protocol (RIP) v1/v2; Open Shortest Path First (OSPF) v1/v2/v3; Classless Inter-Domain Routing (CIDR); Internet Control Message Protocol (ICMP); ICMP Router Discover Protocol (IRDP); Virtual Redundant Routing Protocol (VRRP); Address Resolution Protocol (ARP); Internet Group Management Protocol (IGMP) v2; Distance-Vector Multicast Routing Protocol (DVMRP)	
VLAN	VLAN support for tagging and port-based as per IEEE 802.1Q; Double VLAN tagging (QinQ); Up to 4093 VLANs supported; Dynamic VLAN with GVRP support	
Quality of Service	Layer 2 Trusted Mode (IEEE 802.1p tagging); Layer 3 Trusted Mode (DSCP); Layer 4 Trusted Mode (TCP/UDP); Advanced Mode using Layer 2/3/4 flow-based Policies, including metering/rate limiting, marking and bandwidth guarantees; up to 1024 ACLs can be used for QoS flow identification via Class-maps; 8 Priority Queues per Port; Adjustable Weighted-Round-Robin (WRR) and Strict Queue Scheduling; Port-based QoS Services Mode; Flow-based QoS Services Mode	
Layer 2 multicast	Static IP Multicast; Dynamic Multicast Support – 256 Multicast groups supported in IGMP Snooping; IGMP snooping for IP multicast support; IGMP Querier; Protocol Independent Multicast (PIM-DM, PIM-SM)	
Security	IEEE 802.1x based edge authentication; Switch access password protection; User-definable settings for enabling or disabling Web, SSH, Telnet, SSL management access; Port-based MAC Address alert and lock-down; IP Address filtering for management access via Telnet, HTTP, HTTPS/SSL, SSH and SNMP; RADIUS and TACACS+ remote authentication for switch management access; Up to 100 Access Control Lists (ACLs) supported; up to 100 Access Control Entries (ACEs) per ACL list; SSLv3 and SSHv2 encryption for switch management traffic; Management access filtering via Management Access Profiles	
Other switching features	Link Aggregation with support for up to 8 aggregated links per switch and up to 8 member ports per aggregated link (IEEE 802.3ad); LACP support (IEEE 802.3ad) Link Layer Discovery Protocol supported (IEEE 802.1AB);	
Management	Web-based management interface; Industry-standard CLI accessible via Telnet or Local Serial Port; SNMPv1, SNMPv2c and SNMPv3 supported; four RMON groups supported (history, statistics, alarms and events); TFTP transfers of firmware and configuration files; Dual firmware images on-board; Multiple configuration file upload/download supported; Statistics for error monitoring and performance optimization including port summary tables; BootP/DHCP IP address management supported; Syslog remote logging capabilities; Temperature sensors for environmental monitoring	
Chassis	Approximate weight (without modules): 5.54 kg Approximate weight (with modules): 5.70 kg 440 x 387 x 43.2 mm (W x D x H); 1U, rack-mounting kit included	Approximate weight (without modules): 6.06kg Approximate weight (with modules): 6.20kg 440 x 387 x 43.2 mm (W x D x H); 1U, rack-mounting kit included

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