Dell Networking 6200 Series

Dell™ Networking 6200 Series offers advanced switching capabilities including Power Over Ethernet (PoE), high-density, high-performance stacking and 10 Gigabit Ethernet capabilities scalable from the small business to the enterprise edge.

With 24 or 48 built-in copper Gigabit Ethernet ports in a 1U form factor, as well as a 24 port Fiber GbE version for backbone or long-haul connectivity, the 6200 series gives users the flexibility to maximize server and workstation connectivity in a 1U form factor. The switches also offer support up to four 10 Gigabit Ethernet uplinks for connectivity directly to enterprise backbones and distributed campus wiring closets (IDF and MDF).

High-performance stacking with 10GbE

The 6200 series supports high-performance resilient stacking for up to twelve systems and almost 2 Terabits of capacity in a single stack (each switch supports up to 184 Gbps in switch capacity). The unique modular design allows you to upgrade to advanced stacking or 10 Gigabit Ethernet only when you need it. Plus the 6200 series offers further flexibility with optional modules that allow for either dual 10GBase-T, 10GbE XFP, or a CX4 modul. The optional stacking interfaces allow for high availability module stacking with sub-100ms failover times, even in the event of a master unit failure.

Advanced switching features with robust security

The 6200 series supports advanced Layer 3 routing and multicast protocols to help reduce congestion and manage traffic in the network. The 6200 series supports frequently used LAN routing protocols such as RIPv1/v2, OSPFv1/v2/v3, VRRP, IGMP v1/v2/v3, DVMRP, PIM and LLDP-MED. The 6200 series offers flexibility in Quality of Service (QoS) by giving network administrators the ability to prioritize time-critical Layer 2 or Layer 3 network traffic.

Support for 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. Dell 6200 series switches are IPv6 ready.

Power Over Ethernet (PoE) support

The 6200 series PoE switches offer PoE-per-port support for power-dependent network applications including WLAN Access Points (WAPs), Voice over IP (VoIP) handsets, video conferencing and badge reading. The 6224P and 6248P switches can provide up to 15.4 watts of power for network-attached devices.

Lifetime Warranty*

Select Dell switches are backed by an industry-leading, lifetime warranty which guarantees Basic Hardware Service (repair or replacement) for life.
Details at Dell.com/LifetimeWarranty

Product	Dell™ 6224 & 6224P	Dell ™ 6224F	Dell™ 6248 & 6248P
Port types	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).	24 1000-SX or 1000-LX GigabitEthernet ports; 4 Combo (SFP or 10/100/1000) Gigabit Ethernet ports;Up to 4 10-Gigabit Ethernet Ports; Distances: 1000BASE-SX: Up to 500m 1000BASE-LX: Up to 2 km	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) 6248P: Up to 15.4 watts per port (with optional external power supply) on all 48 ports
Port configuration	Resilient stacking up to 12 systems (with optional module); 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		Switch Fabric Capacity 184 Gb/s Forwarding Rate 131 Mpps Up to 8,000 MAC Addresses
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 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 1024 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 100 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	IGMP v1/v2/v3; 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 LLDP-MED; 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 127 Access Control Entries (ACEs) per ACL; 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 128 static aggregated links, 8 dynamic aggregated links per switch or switch stack and up to 8 member ports per aggregated link; LACP support (IEEE 802.3ad); Link Layer Discovery Protocol support (IEEE 802.1AB); Support for unicast NLB (multicast NLB not supported)		
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; iSCSI Auto Configuration		
Chassis	Approximate weight (without modules): 12.1lbs, 5.49 kg 440 x 387 x 43.2 mm (W x D x H) 17.3" x 15.2" x 1.7" 1U, rack-mounting kit included		Approximate weight (without modules): 12.87lbs, 5.84 kg 440 x 387 x 43.2 mm (W x D x H) 17.3" x 15.2" x 1.7" 1U, rack-mounting kit included
Environmental	Operating Temperature: 0° C to 45° C (0° F to 113° F), Storage Temperature: -20° C to 70° C (-4° F to 158° F)		
Power	Internal Power Supply Voltage AC 110/240 V +- 10% (50/60Hz) Power Consumption Max (Watts): 6224 (69.9W); 6224F (67.6W); 6224P (477W, if all ports drive PoE connections); 6248 (120W); 6248P (499W, if all ports drive PoE connections)		
Optional peripheral products	RPS-600 Redundant Power Supply EPS 470 Redundant Power Supply for POE models SFP Optical Transceivers, 1000BASE-SX, LC Connector SFP Optical Transceiver, 1000BASE-LX, LC Connector CX-4 Module (Max. length supported is 12 meters) XFP Module 10GBase -T Module Stacking Module with 1 Meter Dell Stacking cable 3 meter stacking cable		

Models available with US Trade Agreements Act (TAA) compliance.

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*Select Dell Networking products carry a Lifetime Limited Warranty with Basic Hardware Service (repair or replacement) for life. Repair or replacement does not include troubleshooting, configuration, or other advanced service provided by Dell ProSupport. For more details see Dell.com/lifewarranty.

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