



# Dell PowerConnect 6200 Series

Dell™ PowerConnect™ 6200 is Dell's most advanced switching product line, offering 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 PowerConnect 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 10GbE servers, enterprise backbones and data centers.

## High-performance stacking with 10GbE

The PowerConnect 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 10 Gigabit copper interfaces, or both. The optional stacking interfaces allow for high availability stacking with sub-100ms failover times, even in the event of a master unit failure.

## Advanced switching features with robust security

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, PIM and LLDP-MED. The PowerConnect 6200 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. PowerConnect 6200 switches are IPv6 ready.

## Power Over Ethernet (PoE) support

The PowerConnect 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 PowerConnect switches are backed by an industry-leading, lifetime warranty guaranteeing Basic Hardware Service. PowerConnect switches not only provide the quality, reliability and capability you expect from Dell, but also peace of mind that comes with a true lifetime warranty.

[Details at Dell.com/LifetimeWarranty](http://Dell.com/LifetimeWarranty).\*



Product	Dell™ PowerConnect™ 6224 & 6224P	Dell™ PowerConnect™ 6224F	Dell™ PowerConnect™ 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).  6224P: Up to 15.4 watts per port (with optional external power supply) on all 24 ports	24 1000-SX or 1000-LX Gigabit Ethernet 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 mediasupport; 10 Gigabit Ethernet uplinkmodules (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 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 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	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 12 Access Control Entries (ACEs) per ACL; SSLv3 and SSHv2 encryption for switch management traffic; Management access filtering via Management Access Profiles		
Other switching features	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 12 Access Control Entries (ACEs) per ACL; SSLv3 and SSHv2 encryption for switch management traffic; Management access filtering via Management Access Profiles		
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): 13.4 lbs, 6.06 kg Approximate weight (with modules): 13.7 lbs, 6.20 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): 12.2 lbs, 5.54 kg Approximate weight (with modules): 12.6 lbs, 5.70 kg 440 x 387 x 43.2 mm (W x D x H); 1U, rack-mounting kit included	Approximate weight (without modules): 12.2 lbs, 5.54 kg Approximate weight (with modules): 12.6 lbs, 5.70 kg 440 x 387 x 43.2 mm (W x D x H); 1U, rack-mounting-kit included
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		

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\* Select PowerConnect products carry a lifetime limited hardware warranty with Basic Hardware Service for as long as you own the product. Replacement does not include troubleshooting, configuration, or other advanced service and support provided by Dell ProSupport Services. The PowerConnect products covered by the lifetime limited hardware warranty are: the PowerConnect 2800 Series, the PowerConnect 3500 Series, the PowerConnect 5500 Series, the PowerConnect 6200 Series, and the PowerConnect 8000 Series rack switches. For more details see [www.dell.com/warranty](http://www.dell.com/warranty).

See all networking products at [Dell.com/PowerConnect](http://Dell.com/PowerConnect)

