

# Dell PowerConnect 5300 Series Switches



**Dell™ PowerConnect™ 5324 Gigabit Ethernet switch is designed to deliver Gigabit Ethernet performance with advanced security and enterprise-class management features for server or workstation connectivity.**

## Secure, Wire-Speed Performance

PowerConnect 5324 switch is a secure, fixed-port Gigabit Ethernet switching solution delivering full wire-speed switching performance. Offering 24 built-in copper Gigabit Ethernet ports in a 1U form factor, the PowerConnect 5324 has a total switching capacity of up to 48 Gbps. The switch offers additional flexibility with its four SFP transceiver slots, which can be used in lieu of up to four copper ports to support fiber media.

## Robust Security

Advanced security features of the PowerConnect 5324 switch helps protect the network from accidental or malicious interference. Edge authentication is supported through the industry standard IEEE 802.1x protocol which allows network access through RADIUS-defined usernames and passwords. MAC-based port security is designed to prevent unauthorized MAC addresses from accessing the network. This feature can send a trap to alert select administrators whenever an unknown MAC address attempts to access the network, and can shut down the port if desired. SSLv3 and SSHv2 encryption offer the added security of encrypting switch management traffic. RADIUS and TACACS+ support enables centralized, remote authentication of administrative access to the switch. Management access filtering provides a mechanism to limit network hosts that have management access to the switches.

## Easy, Powerful Management

PowerConnect 5324 switch supports a number of management interfaces, including an easy-to-use embedded Web interface as well as an industry-standard Command Line Interface (CLI), which allows network administrators to utilize existing switch configuration skills. The switch can be managed remotely via a Web browser, Telnet or Simple Network Management Protocol (SNMP), and supports a comprehensive Management Information Base (MIB) as well as four RMON groups. This broad management support eases the tasks of network management and ensures integration into a variety of third party network management applications.

## Multi-Layer Quality of Service

Network traffic prioritization is a key requirement for deploying emerging applications like videoconferencing and voice-over-IP. The PowerConnect 5324 switch provides four priority queues per port. Packets can be classified based on the Layer 2 IEEE 802.1p standard as well as the Layer 3 IP Differentiated Services Code Point (DSCP) standard. These capabilities help increase deployment flexibility and protect networking infrastructure investments.

## Advanced Switching Features

The PowerConnect 5324 supports a variety of standards-based advanced switching features, allowing a network administrator to optimize traffic flow in the network. Up to 247 IEEE 802.1Q VLANs are user-configurable, enabling limitation of broadcast domains as well as improved network security. Protocol-based VLANs allow users to map protocols to VLANs. By using this feature, users can isolate traffic from certain protocols, such as IPX, and assign packets associated with the IPX protocol to a specific VLAN. Other advanced features include port mirroring, dynamic link aggregation (LACP), IP multicast support (IGMP v1 and v2), SNMP, TraceRoute and copper cable/fiber transceiver diagnostics.

## High Availability

The PowerConnect 5324 offers several availability features to meet enterprise networking needs. Spanning Tree Protocol and Rapid Spanning Tree protocol support helps reduce network setup time and improve network availability by automatically activating standby links if the active link fails. The switches also store dual configuration files and firmware images for rollback purposes if the switch setup has a problem. Overall availability can be further increased by deploying the optional Dell PowerConnect RPS-600 redundant power system.



Dell PowerConnect 5324

Simplicity and Performance. Easy as **DELL™**

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## DELL ENTERPRISE SERVICES

By leveraging the proven advantages of our direct model, including tailored service and support, low cost and a single point of contact, Dell Services can provide you with fast, effective, affordable service offerings at any point in your IT process. By doing so, we offer a combination of bundled best practices and tailored solutions that work together to provide maximum value to you. Whether you need support, deployment, training and certification programs, or professional consulting services, individually or bundled as a total package, Dell promises to be your single point of contact at all times.

### Professional Services

Dell Professional Services enables Dell customers to optimize ROI by leveraging complex technology through the design, development and deployment of innovative, robust and scalable business-critical solutions. With each engagement, we utilize our proven methodology and project management expertise to understand your business objectives, design plans that are flexible to adapt to your current environment and then deliver.

### Deployment Services

We bring you deployment assistance that delivers true value from beginning to end. Dell can tailor systems to our customers' specifications by customizing the hardware and software configuration during the initial system-build to help reduce redundancy and time. We can manage the delivery, installation and disposal of your assets with the same eye for efficiency.

### Training and Certification

Our approach to Training and Certification allows you to outsmart your competitors — not outspend them — with industry-standard learning across Dell hardware and industry-standard software. Dell can assist you wherever you need us, whether on-site, on-line or in a classroom setting, to help your organization take full advantage of information technology.

### Enterprise Support Services

Technology is a significant investment, and it pays to have a partner who can help you minimize costly downtime. Through our Premier Enterprise Support Services (PESS) offerings, Dell provides tiered support service packages with the flexibility to customize the offering to meet your specific needs across a wide range of computing environments. With proactive and reactive support options which include hardware and software support with varied response levels, account management and remote resolution, Dell provides support solutions that meet your needs, cost-effectively.

### Standard Warranty and Service Plan

- Three-year limited warranty<sup>1</sup> supplemented with three years of Next Business Day Advance Exchange Service<sup>2</sup>
- 7-day/24-hour Lifetime Telephone Technical Support for troubleshooting and diagnosis of Dell hardware
- 7-day/24-hour Online Support Services
- Lifetime firmware upgrades (available for download via support.dell.com)

### Optional Support

You can upgrade to three or five years of Advance Exchange Service, with either Same Day or Next Business Day response. You may also choose three or five years of On-Site Service, with either Same Day or Next Business Day response.

FEATURES	Dell™ PowerConnect™ 5324
<b>Port configuration</b>	24 10/100/1000BASE-T ports 4 SFP slots (combo) for fiber support Auto-negotiation for speed, duplex mode and flow control
<b>Performance</b>	Switching Capacity 48.0 Gbps Forwarding Rate 35.6 Mpps
<b>Management</b>	Industry-standard CLI Web-based management interface SNMP v1 and SNMP v2c supported 4 RMON groups (history, statistics, alarms and events) BootP/DHCP IP address management Syslog remote logging Simple network time protocol (SNTP) DNS client Copper cable/fiber transceiver diagnostics
<b>Class of service</b>	Four priority queues per port Layer 2 IEEE 802.1p tagging and port-based priority Layer 3 priority based on DSCP values Weighted-round-robin (WRR) and strict priority scheduling
<b>Security</b>	Edge authentication via 802.1x Switch access password protection Port-based MAC address alert and lock-down RADIUS and TACACS+ support for switch management access SSLv3/SSHv2 encryption for switch management traffic Management access filtering via Management Access Profiles IP Address filtering for management access via Telnet, HTTP, HTTPS/SSL, SSH and SNMP
<b>VLAN</b>	IEEE 802.1Q tagging and port-based, up to 247 user-configurable VLANs Protocol-based VLANs Dynamic VLANs with GVRP support
<b>Multicast</b>	IGMP v1/v2 snooping Static IP Multicast
<b>Switching features</b>	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 Port mirroring Jumbo frame support up to 9000 bytes
<b>Availability</b>	External redundant power support with PowerConnect RPS-600 (sold separately) Spanning Tree (IEEE 802.1D) and Rapid Spanning Tree (IEEE 802.1w) with Fast Link support Dual firmware images Configuration file upload and download External redundant power support with PowerConnect RPS-600 (sold separately)
<b>Chassis</b>	440 x 253 x 44 mm (W x D x H) 1U, rack-mounting kit included
<b>Peripheral products</b>	RPS-600 Redundant Power Supply Dell SFP Transceivers (1000-SX and 1000-LX)

<sup>1</sup> For a copy of our guarantees or limited warranties, please write Dell USA L.P., Attn: Warranties, One Dell Way, Round Rock, TX 78682. For more information, visit [www.dell.com/us/en/gen/services/service\\_plans.htm](http://www.dell.com/us/en/gen/services/service_plans.htm).

<sup>2</sup> Technician, replacement part or unit (depending on service contract) will be dispatched if necessary following phone-based troubleshooting in advance of receipt of returned defective unit. Service may be provided by third-party provider. Subject to parts availability, geographical restrictions and terms of service contract. Service timing dependent upon time of day call placed to Dell. Defective unit must be returned. Replacements may be refurbished. U.S. only.

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