Dell PowerConnect 3248 and PowerConnect 5224 Switches

The Dell™ PowerConnect™ 3248 and PowerConnect 5224 switches are designed to deliver exceptional levels of performance and manageability at the edge of the network.

Space-Saving Performance

The PowerConnect 3248 provides 48 Fast Ethernet ports in a 1U form factor, ideal for a rack-dense, high performance wiring closet solution. Designed to deliver wire-speed Layer 2 switching performance across all ports, the switch integrates — into the front panel — dual Gigabit Ethernet uplinks including built-in 1000BaseT ports and optional 1000BaseSX and 1000BaseLX ports with transceiver modules. The PowerConnect 3248 is an ideal edge switch for medium and large enterprise networks.

The PowerConnect 5224 incorporates 24 Gigabit Ethernet ports in a 1U form factor capable of wire-speed switching throughput with a total switching capacity of up to 48Gb/s. The 24 ports are built-out as 10/100/1000BaseT ports, and four of these ports can accommodate optional 1000BaseSX and 1000BaseLX transceivers to support fiber media. The PowerConnect 5224 is an ideal switch for data center connectivity, Layer 2 traffic aggregation and emerging Gigabit Ethernet client connectivity.

Switch Management

The PowerConnect 3248 and PowerConnect 5224 support a variety of management interfaces, including an easy to use embedded Web interface and an industry standard command line interface (CLI), which allows your network administrator to utilize existing switch configuration skills. The switches can be managed remotely via a Web browser, Telnet or simple network management protocol (SNMP) and support a comprehensive management information base (MIB) as well as four RMON groups. This broad management support helps ensure integration into a variety of third party network management applications.

RADIUS support enables centralized, remote authentication of administrative access to the switch. In addition, the switches can store dual configuration and firmware images, while supporting the upload and download of configuration and firmware files to a server.

Layer 3 and Layer 4 Traffic Classification

Giving priority to data packets that are associated with critical network traffic is a key requirement for deploying emerging applications like video conferencing and voice-over-IP. The PowerConnect 3248 and PowerConnect 5224 provide four priority queues per port. Packets can be classified based on the Layer 2 IEEE 802.1p standard, Layer 3 IP Precedence or IP Differentiated Services Code Point (DSCP) standard, or Layer 4 standard utilizing TCP/UDP ports (Layer 4 supported in PowerConnect 3248 only). This helps you increase your deployment flexibility and protect your networking infrastructure investment.

Advanced Protocol Support

Supporting emerging industry standards, both PowerConnect switches are designed to provide interoperability with your core networking equipment and offer ease of use and availability. The supported standards include dynamic VLANs (GVRP), dynamic link aggregation (LACP) and IP Multicast (IGMP v1 and v2).

Peripherals Support

Overall availability can be further increased by deploying the optional Dell PowerConnect RPS-600 redundant power system. Each PowerConnect RPS-600 provides a dedicated, redundant power supply for up to four PowerConnect 3248 or PowerConnect 5224 switches, eliminating the switch's internal power supply as a single point of failure.

Moreover, the optional 1000SX and 1000LX optical Gigabit Ethernet transceivers are small form-factor pluggable (SFP) designs and support distances between 220m and 5km, depending on the type of fiber media used.

Dell PowerConnect 3248 and PowerConnect 5224 switches deliver performance and flexibility, while easily integrating into your existing network environment.

PowerConnect 3248

PowerConnect 5224

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

DELL SERVICES

Dell offers a broad portfolio of services that help optimize use of Dell technology, rapidly deploy systems, and maximize system uptime. Dell provides expert advice and technical assistance, and a single point of contact, while striving to help achieve a lower total cost of ownership.

Standard Warranty and Service Plan

Dell™ PowerConnect™ managed switches come with a three-year Limited Warranty[1] and three years of Next Business Day unit replacement[2]. The Limited Warranty can be supplemented by purchasing your choice of:

- Three years of Next Business Day On-Site[3] Labor Service with unit replacement
- Three years of Same-Day[4] unit replacement
- Three years of Same-Day On-Site[4] Labor Service with unit replacement

24/7 Hardware Technical Phone Support

Dell's toll-free hardware support line can be used anytime for the duration of the warranty period. There is no limit and no charge on calls you make to Dell for troubleshooting assistance and diagnosis of Dell hardware.

For all PowerConnect Limited Warranties, the length of the technical phone support is the same as the length of the system's Limited Warranty.

DirectLine™ Plus Software Support Hotline

Dell's DirectLine Plus service provides telephone support for PowerConnect managed switch software. DirectLine Plus includes enhanced support with full 24/7 coverage and a guaranteed telephone response time of one hour for critical issues and two hours for non-critical issues, or your resolution is free. (The guarantee does not apply to single resolutions purchased individually.)

Installation Services

Dell offers on-site installation of all PowerConnect switches.

- Standard Installation provides installation of the PowerConnect switch, including installation into a Dell-supported rack (if required), connecting cables between the switch and attached servers and clients, and testing for proper connectivity.
- Advanced Installation provides installation of the PowerConnect switch, as described above, plus advanced configuration of managed switches, including all features outlined in the User Guide (Password protection, System Manager, Port Manager, Address Manager, Spanning Tree, VLAN and Class of Service Setup, Port Trunking, Port Mirroring, SNMP, Multimedia Support, and Statistics). Customer must provide detailed configuration requirements prior to installation.

Services vary by region. For more information on the available services in your area, please visit dell.com.

FEATURES	PowerConnect 3248	PowerConnect 5224
Switching capacity	13.6Gb/s	48Gb/s
10/100BaseT ports	48 Ports RJ-45, IEEE 802.3/802.3u	None
10/100/1000BaseT ports	Two Ports RJ-45, IEEE 802.3ab	24 Ports RJ-45, IEEE 802.3ab
Fiber media support	Two SFP slots (combo with 1000BaseT ports) for 1000SX and 1000LX transceivers	Four SFP slots (combo with 1000BaseT ports) for 1000SX and 1000LX transceivers
Auto-negotiation	Speed, duplex mode, flow control; MDI/MDIX	Speed, duplex mode, flow control; MDI/MDIX
VLAN	IEEE 802.1Q tagging and port-based, up to 255 VLANs, dynamic VLAN (GVRP)	IEEE 802.1Q tagging and port-based, up to 255 VLANs, dynamic VLAN (GVRP)
Class of Service	L2 IEEE 802.1p tagging and port-based priority with four queues per port	L2 IEEE 802.1p tagging and port-based priority with four queues per port
	L3 priority based on IP ToS (Precedence, DSCP)	L3 priority based on IP ToS (Precedence, DSCP)
	L4 priority based on TCP/UDP Port	
IP Multicast support	IGMP v1/v2 snooping, static IP Multicast	IGMP v1/v2 snooping, static IP Multicast
Availability	Spanning Tree, IEEE 802.3ad Link Aggregation, LACP, port mirroring	Spanning Tree, IEEE 802.3ad Link Aggregation, LACP, port mirroring
	Optional external redundant power with PowerConnect RPS-600	Optional external redundant power with PowerConnect RPS-600
Management	Web-based management	Web-based management
	Industry-standard command line interface (CLI)	Industry-standard command line interface (CLI)
	RADIUS remote authentication for administrative access	RADIUS remote authentication for administrative access
	SNMPv1, 4 RMON groups, multiple MIBs	SNMPv1, 4 RMON groups, multiple MIBs
	Configuration file management, dual firmware images	Configuration file management, dual firmware images
Chassis	1U, rack-mounting kit included	1U, rack-mounting kit included

Dell cannot be responsible for errors in typography or photography.

These devices have not been approved by the Federal Communications Commission for use in a residential environment. These devices are not, and may not be, offered for sale or lease, or sold or leased for use in a residential environment until the approval of the FCC has been obtained.

[1] For a complete copy of our guarantees or limited warranties, please write to Dell USA L.P., One Dell Way, Round Rock, Texas 78682, Attn: Warranty.

[2] Replacement unit will be dispatched if necessary following phone-based troubleshooting. To receive your unit the next business day, Dell must be able to dispatch the unit before 5 p.m. (depending on service contract) C.S.T. Availability varies.

[3] Service may be provided by third-party provider. Technician will be dispatched if necessary following phone-based troubleshooting. To receive next business day service, Dell must notify the service provider before 5:00 pm (depending on service contract) customer time. Availability varies.

[4] Service or replacement unit (depending on service contract) may be provided by third-party provider. Technician or replacement unit will be dispatched if necessary following phone-based troubleshooting. For 7x24 and 5x10 service, Dell will dispatch a service technician or replacement unit within 4 hours of determining the hardware problem. For 5x10 service, the service technician or replacement unit may not arrive until the following business day if dispatched after 4:00 pm local time. Available within a 125-mile radius of over 80 metropolitan areas. Customers not located within a 125-mile radius of the stocking locations are not eligible for this offering. Available in the U.S. only.

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