

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 48 Gigabits/second. 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 fibre media. The PowerConnect 5224 is an ideal switch for data centre 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 utilise 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 centralised, 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 utilising 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 fibre media used.

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



Dell PowerConnect 3248



Dell PowerConnect 5224

Simplicity and performance. Easy as



Visit www.euro.dell.com for more information.

DELL SERVICES

Dell offers a broad portfolio of services that helps optimise use of Dell technology, rapidly deploy systems, and maximise 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 Service Plan

Dell™ PowerConnect™ managed switches come with 1-year next business day response¹.

Technical Support

All systems are supplied with 30 days' getting started configuration assistance and 24-hour online support at support.euro.dell.com. Telephone technical support is available during local business hours.

Upgrades include:

- Premier Enterprise Bronze Support – three years' next business day response
- Three years' service with 4-hour response¹ – 12 hours a day, 5 days a week
- Premier Enterprise Silver Support – three years' 24x7 service with 4-hour response¹, and software and storage support resolutions

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). Customers must provide detailed configuration requirements prior to installation

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

FEATURES	PowerConnect 3248	PowerConnect 5224
Switching capacity	13.6 Gigabits/second	48 Gigabits/second
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
Fibre 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 L3 priority based on IP ToS (Precedence, DSCP) L4 priority based on TCP/UDP Port	L2 IEEE 802.1p tagging and port-based priority with four queues per port L3 priority based on IP ToS (Precedence, DSCP)
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 Optional external redundant power with PowerConnect RPS-600	Spanning Tree, IEEE 802.3ad Link Aggregation, LACP, port mirroring Optional external redundant power with PowerConnect RPS-600
Management	Web-based management Industry-standard command line interface (CLI) RADIUS remote authentication for administrative access SNMPv1, Four RMON groups, multiple MIBs Configuration file management, dual firmware images	Web-based management Industry-standard command line interface (CLI) RADIUS remote authentication for administrative access SNMPv1, Four RMON groups, multiple MIBs Configuration file management, dual firmware images
Chassis	1U, rack-mounting kit included	1U, rack-mounting kit included

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