

# Switching to Layer 3 performance

Dell PowerConnect 6000 Series Gigabit Ethernet routing switches deliver high-availability Layer 3 connectivity

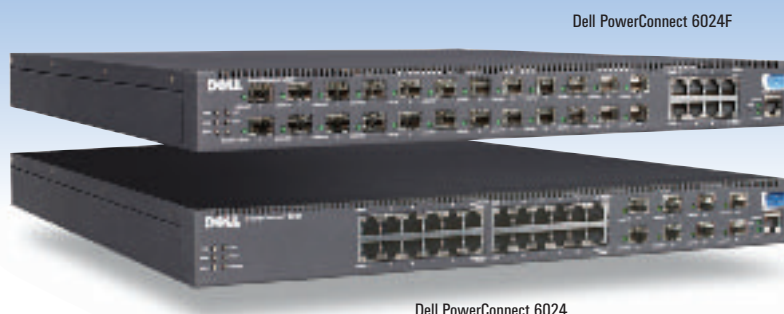
**In enterprise computing environments, high-availability connectivity to resources such as high-speed network backbones and servers is not an option—it's a necessity.**

Dell™ PowerConnect™ 6024 and 6024F Gigabit Ethernet Layer 3 switches satisfy this need in medium and large organizations, address edge-of-the-network LAN routing requirements, and even handle core routing for small or branch offices.

Delivering wire-speed switching performance, PowerConnect 6024 and 6024F switches each offer a total switching capacity of 48 Gbps, a maximum forwarding rate of 35.6 Mbps, and 24 usable Gigabit Ethernet ports. The slim 1U form factor makes these rack-dense switches an ideal fit in space-conscious data centers, and flexible connectivity options for copper and fiber Gigabit media help future-proof today's networks. PowerConnect 6024 and 6024F switches support advanced IP and IP multicasting routing protocols as well as quality of service features to enable administrators to optimize network traffic flow. Both switches provide many standards-based switching and routing features to improve manageability, security, scalability, and high availability.

#### **Flexible management and remote-access options**

For maximum versatility, PowerConnect 6000 Series switches have an easy-to-use, embedded Web management interface as well as an industry-standard command-line interface (CLI) that allows administrators to leverage existing switch configuration skills.



Remote management is simple using a Web browser or Telnet access to the CLI. Both switches also support SNMP-based remote management using Dell OpenManage™ Network Manager or third-party management console applications.

#### **Advanced security capabilities**

Robust security features on these switches are designed to safeguard existing investments by functioning compatibly with currently deployed tools, such as SNMP-based software applications. Media Access Control (MAC)-based network security can be used in conjunction with SNMP software to alert administrators when unauthorized MAC addresses attempt to access the network. To protect remote access to the switch, the Remote Authentication Dial-In User Service (RADIUS) protocol provides remote authentication. Secure Sockets Layer (SSL) and Secure Shell (SSH) encrypt Web and Telnet management traffic for an additional level of remote-access security.

#### **Scalability and investment protection**

The PowerConnect 6024 and 6024F supply eight priority queues per port to facilitate the multilayer traffic control that is critical for emerging applications such as videoconferencing and voice over IP (VoIP). Advanced

traffic-flow policies expand network capabilities by enabling rate limiting, metering and bandwidth guarantees to ports, link aggregation groups, and virtual LANs (VLANs)—all of which help networks to scale without the replacement of existing network infrastructures.

#### **Enhanced availability**

To ensure high availability, PowerConnect 6024 and 6024F switches feature dual integrated power supplies and cooling fans. This hot-swappable hardware can improve system uptime and minimize the potential for an inoperable switch—and potentially lower costs by eliminating the need for an external redundant power supply. The switches also support redundant router connections to eliminate single points of failure at the router level—and help ensure reliability for mission-critical applications. Routing tables can be replicated between multiple 6000 series switches using Virtual Router Redundancy Protocol for enhanced availability in the network.

#### **For more information:**

In U.S.: [www.dell.com/networking](http://www.dell.com/networking)

In Europe: [www.euro.dell.com](http://www.euro.dell.com)

In Asia: [www.dell.com/ap](http://www.dell.com/ap)