EqualLogic PS6210 Series

The Dell™ EqualLogic™ PS6210 arrays bring a new level of performance for your most demanding applications, while delivering the simplicity of the EqualLogic management experience.

Performance and efficiency simplified for the real world
The Dell EqualLogic PS6210 is an intelligent storage array, designed to provide simple management and seamless expansion using innovative Dell technology. The Dell Storage PS Series arrays include SAN configuration features and capabilities that sense network connections, automatically build RAID sets, and conduct system health checks to help ensure that all components are fully functional. Based on a virtualized modular storage architecture that enables you to purchase only the storage you need — when you need it — the PS Series arrays help prevent both underutilization and over-provisioning in your data center. All PS Series arrays in a SAN work together to automatically manage data, load balance across all resources, and expand to meet your growing storage needs. With the addition of EqualLogic FS Series appliances, you can effectively store both block and file data in a unified storage solution.

PS Series products are designed to meet and exceed the rugged requirements of the data center including fault-tolerant capabilities through fully redundant and hot-swappable components: dual controllers, dual fan trays, dual power supplies, and disk drives with hot spares.

Build and scale the storage system you need
With choices in performance, capacity and networking, the EqualLogic PS6210 Series arrays offer enterprise-class storage features that are easy to operate and manage. These features are optimized for virtualization platforms and a variety of applications such as deployments of faster networking technology, server virtualization, VDI, OLTP (online transactional processing) database workloads, large-block sequential workloads, and other high-IOPS workloads that are latency sensitive.

The SSD-enabled PS6210 arrays provide flash at the price of disk with a new level of performance in the PS Series line: Twice the maximum IOPS as prior models for their most critical applications. All-flash PS6210S arrays provide load-balanced performance and dense SSD capacity that can be scaled out predictably. PS6210XS hybrid-flash arrays are ideal for VDI deployments, important databases and other mixed workloads by providing auto-tiering for hot data.

Feature-rich software portfolio
The Dell Storage PS Series arrays include innovative firmware and host software with no additional cost or software licensing fees.

EqualLogic host software extends the functionality of the array-based software enabling cooperation with the host. Host Integration Tools for Microsoft, VMware, and Linux environments as well as EqualLogic SAN Headquarters (SAN HQ) management software are included with your EqualLogic array purchase. SAN HQ provides an interface for monitoring your groups of EqualLogic arrays, and offers a proactive and automated support process with SupportAssist to help improve productivity and accuracy while helping you gain insight and control.

A flash-enabled PS Series SAN can provide over 267K IOPS for an OLTP database workload with less than five milliseconds of latency.
Technical highlights

Host protocol
Any standards-compliant iSCSI initiator

Expansion option
Can be combined with other EqualLogic PS Series arrays in the same SAN group online: maximum of 16 total arrays per group that can support a maximum of 384 drives with the PS6210 Series. With multigenerational capabilities, you can support up to 10 cross-generation types of controllers with multiple network configurations and drives types in a new or existing EqualLogic SAN resource pool, all managed by a single interface.

Operating systems and hypervisors
Microsoft® Windows Server® including Hyper-V®, VMware® ESX Server, Red Hat® Enterprise Linux® (RHEL), SUSE® Enterprise Linux® (SLES), Oracle® Linux, Oracle® Solaris™, IBM® AIX®, HP-UX, Mac OS® X, Citrix® XenServer®, Novell® NetWare®

For a complete list of supported OS versions including software initiators, NICs/CNAS, and HBAs, please see the EqualLogic Compatibility Matrix (http://en.community.dell.com/techcenter/storage/w/wiki/2661.equallogic-compatibility-matrix-07262013.aspx).

RAID
PS6210E: RAID 6, RAID 10 and RAID 50 (for 2TB drives)³
RAID 6, RAID 10 and RAID 50²
PS6210S: RAID 6, RAID 10 and RAID 50²
PS6210XS: Accelerated RAID 6

TCP network support
IPv4 SAN and management traffic supported, and IPv6 SAN and in-band management supported

Reliability
Redundant hot-swappable controllers; hot-swappable disk drives and power supplies

Enclosure monitoring system
Automatic spare configuration and utilization; SMART; Automatic bad block replacement; Auto-Stat Disk Monitoring System (ADMS) to monitor health of data on disk drives

Management interfaces
Group Manager (GUI and CLI)
SAN Headquarters multi-group performance and event monitoring tool
Virtual Storage Manager vsCenter plugin
Serial console

Ability to configure a separate management network
SNMP, telnet, SSH, HTTP, Web (SSL)
Host scripting, including Windows PowerShell
Multi-administrator support

Security
CHAP authentication; Access control lists for iSCSI as well as new Access Control Policies; Access control for management interfaces including Active Directory, LDAP, or RADIUS support

Notification methods
SAN Headquarters alerting, including Dell SupportAssist, SNMP traps, email and syslog

Physical
PS6210E:
Height: 4U/175 mm (6.87 inches)
Width: 446 mm (17.57 inches)
Depth: 580 mm (22.83 inches)
Weight: 47.1 kg (103.8 lb)³

PS6210X:
Height: 4U/175 mm (6.87 inches)
Width: 446 mm (17.57 inches)
Depth: 546 mm (21.50 inches)
Weight: 26.4 kg (58.3 lb)³

Power
PS6210E power supplies: dual 1080W, optional dual 1080W DC-DC
PS6210X, PS6210S, PS6210XS and PS6210XV power supplies: dual 700W, optional dual 700W DC-DC

Rack support
ReadyRails™ II static rails for tool-less mounting in 4-post racks with square or unthreaded round holes or tooling mounted in 4-post threaded-hole racks

End-to-end technology solutions
Reduce IT complexity, lower costs and eliminate inefficiencies by making IT and business solutions work harder for you. You can count on Dell for end-to-end solutions to maximize your performance and uptime. A proven leader in Servers, Storage and Networking, Dell Enterprise Solutions and Services deliver innovation at any scale. And if you’re looking to preserve cash or increase operational efficiency, Dell Financial Services™ has a wide range of options to make technology acquisition easy and affordable. Contact your Dell Sales Representative for more information.

Learn More at Dell.com/EqualLogic.