



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. EqualLogic PS Series storage 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.

EqualLogic 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, and 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 give customers flash at the price of disk with a new level of performance in the EqualLogic family: Twice the maximum IOPS as prior models for their most critical applications.¹ 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 EqualLogic PS Series arrays include innovative firmware and host software with no additional cost or software licensing fees. EqualLogic's latest firmware release offers new features so your hardware can meet your current needs and can grow with you as the demands of the virtual era increase.

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 EqualLogic SAN can provide over 267K IOPS for an OLTP database workload with less than five milliseconds of latency.²

Features	PS6210E/PS6210XV 3.5"	PS6210XV/PS6210X	PS6210S/PS6210XS
Product configurations	Capacity for your data-hungry applications	High performance for your demanding enterprise applications	High-performance storage optimized for your most critical applications
Storage controllers	Dual controllers with 16GB ³ non-volatile memory per controller		
Network interfaces	10GbE connectivity Management network: One (1) 100BASE-TX per controller Interface ports: Two (2) 10GBASE-T with RJ45 or two (2) 10GbE SFP+ for fibre or twin-ax copper cabling		
Hard disk drives	PS6210E: Twenty-four (24) 7.2K RPM NL-SAS hot-pluggable hard disk drives PS6210XV 3.5": Twenty-four (24) 15K RPM SAS hot-pluggable drives	PS6210XV: Twenty-four (24) 15K RPM SAS hot-pluggable drives PS6210X: Twenty-four (24) 10K RPM SAS hot-pluggable hard disk drives	PS6210S: Twenty-four (24) hot-pluggable SSDs PS6210XS: Seven (7) hot-pluggable SSDs and seventeen (17) hot-pluggable 10K RPM SAS
Drive capacities	PS6210E: 3.5" 7.2K RPM 2TB ³ , 3 TB, and 4TB NL-SAS drives PS6210XV 3.5": 3.5" 15K RPM SAS 600GB drives	PS6210XV: 2.5" 15K RPM 300GB SAS drives PS6210X: 2.5" 10K RPM 600GB, 900GB, and 1.2TB SAS drives	PS6210S: 2.5" 400GB and 800GB SSDs PS6210XS: Combines 2.5" 800GB SSDs and 2.5" 1.2TB 10K RPM SAS drives (400GB SSD and 600GB SAS drives available early 2014)
System capacities	PS6210E: Up to 96TB PS6210XV 3.5": Up to 14.4TB	PS6210XV: Up to 7.2TB PS6210X: Up to 28.8TB	PS6210S: Up to 19.2TB PS6210XS: Up to 26TB
Self-encrypting drives (SED)	PS6210E: 96TB using twenty-four (24) 4TB 7.2K RPM NL-SAS SED drives PS6210XV 3.5": 14.4TB using twenty-four (24) 600GB 15K RPM 3.5" SAS SED drives	PS6210XV: 7.2TB using twenty-four (24) 300GB 15K RPM SAS SED drives PS6210X: 21.6TB using twenty-four (24) 900GB 10K RPM SAS SED drives	NA
Technical highlights			
Host protocol	Any standards-compliant iSCSI initiator		
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 .
RAID	PS6210E: RAID 6, RAID 10 and RAID 50 (for 2TB drives) ⁴ PS6210XV 3.5": RAID 6, RAID 10 and RAID 50 ⁴	RAID 6, RAID 10 and RAID 50 ⁴	PS6210S: RAID 6, RAID 10 and RAID 50 ⁴ PS6210XS: Accelerated RAID 6
TCP network support	IPv4, IPv6 core support		
Expansion option	Can be combined with other EqualLogic PS Series arrays in the same SAN group, online; maximum of 16 total members per group.		
Reliability	Vertical port sharing; redundant hot-swappable controllers, power supplies/cooling fans and hot-swappable disks; individual disk drive slot power control		
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 vCenter 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 and PS6210XV 3.5": 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) ⁵	PS6210X, PS6210S, P6210XS and PS6210XV: Height: 2U / 87 mm (3.42 inches) Width: 446 mm (17.57 inches) Depth: 546 mm (21.50 inches) Weight: 26.4 kg (58.3 lb) ⁵	
Power	PS6210E and PS6210XV 3.5" power supplies: dual 1080W, optional dual 1080W DC-DC PS6210X, PS6210S, P6210XS 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 tooled mounting in 4-post threaded-hole racks		
Dell support and optional storage service offerings	Dell ProSupport Plus for critical systems or Dell ProSupport for premium hardware and software support are recommended to provide you the right support services for your EqualLogic solution. ⁶ Contact your Dell representative today for more information.		

¹ Performance may vary depending on the workload and drive type. Based on September 2013 Dell performance testing comparing the PS6210XS and PS6110XS arrays with 4KB block and 70/30 read/write random.

² Performance may vary depending on the workload and drive type. Based on September 2013 Dell performance testing using eight PS6210XS arrays with Dell PowerEdge™ R620 and R610 servers and Dell Networking switches, using 70/30 read/write workloads.

³ GB means 1 billion bytes, TB equals 1 trillion bytes and PB equals 1 quadrillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

⁴ RAID 5 is also available for non-production data, but is generally not recommended; RAID 50 is similarly not recommended for production data on drives larger than 2TB.

⁵ Actual unit and packaged weights will vary slightly by drive type and packaging.

⁶ Availability and terms of Dell Services vary by region. Dell Basic Service is included standard with EqualLogic units. For more information, visit [Dell.com/ServiceDescriptions](#).

Global services and support

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](#)