EqualLogic PS6100 Series

The Dell™ EqualLogic™ PS Series storage arrays offer enterprise power with everyday simplicity. The PS6100 Series offers you exceptional performance with 1GbE networking — so you can leverage your existing infrastructure.

Performance where and when you need it

The EqualLogic PS6100 Series doesn't force you to make a choice between scaling storage performance or expanding capacity. A virtualized, peer-scale architecture delivers high performance to demanding enterprise applications, even as they grow. PS Series arrays make it possible to purchase only the storage you need when you need it. Sophisticated yet simple management features speed SAN configuration while built-in intelligence senses network connections, automatically builds RAID sets and conducts system health checks. Even multi-generations of PS Series arrays can work together to automatically manage data, load balance across all resources or seamlessly expand the storage pool when you add a new array. The reliable PS6100 Series arrays reduce single points of failure with fully redundant and hot-swappable controllers, fan trays, power supplies, disk drives with hot spares, and vertical port sharing.

Feature-rich software portfolio

The EqualLogic PS Series arrays include innovative firmware and host software with no additional cost or software licensing fees. What's more, EqualLogic's unique all-inclusive software licensing model allows you to continue to add new features and functionality to your existing hardware as they become available — without charge. So, you can deploy the latest storage innovations without a costly rip-and-replace upgrade. PS Series arrays include enterprise-class storage software features like sub-volume automated tiering, thin provisioning and pointer-based snapshots, so you can efficiently deliver the right data to the right place at the right time.

EqualLogic Host Software extends the functionality of the array-based software, optimizing server and storage cooperation. Host Integration Tools are available for major OS and hypervisor providers, including Microsoft, VMware and Linux.

EqualLogic SAN Headquarters (SAN HQ) gives you in-depth reporting and analysis, consolidated performance and robust event monitoring across multiple EqualLogic groups, so you have a well-tuned EqualLogic SAN to meet and surpass your business requirements.

> EqualLogic PS Series storage solution has the lowest total cost of ownership over a five year period compared to comparable SAN arrays in the market.*

PS6100 Series Features	PS6100E/PS6100X	PS6100S/PS6100XS	PS6100XV/PS6100XV 3.5"
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 8GB[1] non-volatile memory per controller		
Network interfaces	Management network: One 100BASE-TX dedicated management port per controller Interface ports: Four 1000BASE-T ports per controller		
Hard disk drives	PS6100E: 24 hot-pluggable 3.5" 7.2K RPM NL-SAS drives PS6100X: 24 hot-pluggable 2.5" 10K RPM SAS drives	PS6100S: 24 hot-pluggable 2.5" SSDs PS6100XS: 7 hot-pluggable 2.5" SSDs and 17 hot-pluggable 2.5" 10K RPM SAS drives	PS6100XV: 24 hot-pluggable 2.5" 15K RPM SAS drives PS6100XV 3.5": 24 hot-pluggable 3.5" 15K RPM SAS drives
Drive capacities	PS6100E: 1TB, 2TB, 3TB, 4TB PS6100X: 300GB, 600GB, 900GB, 1.2TB	PS6100S: 400GB, 800GB PS6100XS: SSD: 400GB, 800GB; SAS: 600GB, 1.2TB	PS6100XV: 146GB, 300GB PS6100XV 3.5": 600GB
System capacities	PS6100E: Up to 96TB PS6100X: Up to 28.8TB	PS6100S: Up to 19.2TB PS6100XS: Up to 26TB	PS6100XV: Up to 7.2TB PS6100XV 3.5": Up to 14.4TB
Self-Encrypting Drives (SED)	PS6100E: 3TB, 4TB NL-SAS SEDs PS6100X: 900GB SAS SEDs	N/A	PS6100XV: 300GB SAS SEDs PS6100XV 3.5": 600GB SAS SEDs
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 supported	All PS series except PS6100XS: RAID 5, RAID 6, RAID 10 and RAID 50[2]; PS6100XS: RAID-6 accelerated		
TCP network support	IPv4, IPv6 core support		
Expansion option	Can be combined with other EqualLogic PS Series arrays in the same SAN group, online. A maximum of 16 total members per group.		
Reliability	Redundant hot-swappable controllers with vertical port sharing Hot-swappable disks 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	SAN Headquarters multi-group performance and event monitoring tool; Serial console; Ability to configure a separate management network ; SNMP, telnet, SSH, HTTP, Web (SSL), host scripting; Multi-administrator support		
Security	CHAP authentication; Access control for iSCSI; Access control for management interface, including Active Directory, LDAP or RADIUS support		
Notification methods	SNMP traps, email, syslog		
Physical	PS6100X, PS6100S, P6100XS & PS6100XV Height: 2U/8.68 cm (3.41 inches) Width 44.63 cm (17.57 inches) Depth: 54.1 cm (21.3 inches) Weight: 24.1 kg (53.1 lb)	PS6100E & PS6100XV 3.5 Height: 4U/17.5cm (6.89 inches) Width 44.63cm (17.57 inches) Depth: 57.5cm (22.6 inches) Weight: 44.45kg (98 pounds)	
Power	PS6100E & PS6100XV 3.5: Power supplies: Dual 1080W PS6100X, PS6100S, P6100XS & PS6100XV: Power supplies: Dual 700W DC Voltage: -48 to -60 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.[3] Contact your Dell representative today for more information.		

[1] 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.
[2] 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.
[3] 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