



System and Controller Features	
Controllers	Dual / Single Fibre or SAS Controller Configuration, Automatic Failover/Failback RAID Controllers
Drive Support	(12-bay) or (16-bay) 3.5" x 1" hard drives: SAS 3Gb/s, SATA-2 3Gb/s and 1.5Gb/s Supports any mix of SAS 3Gb/s, SATA-2 3Gb/s and 1.5Gb/s drives <b>simultaneously in the same system</b>
External I/O Ports (per controller)	Dual 4Gb Fibre Channel host port - Backwards compatible with 2Gb and 1Gb FC HBAs; One external 3Gb/s SAS x 4 ports for JBOD expansion (up to 4 Magellan JBOD Systems) -OR- Four 3Gb/s SAS x 4 host ports; One external 3Gb/s SAS x 4 port for JBOD expansion (up to 4 Magellan JBOD Systems) Supports Mini-SAS Connector
Data Cache	Shared 512MB predictive data cache (max. to 2GB); Automatic write cache destaging; 72-hour battery backup (for 2GB)
Command Queue Depth	512 commands per Magellan controller

Operational Features	
RAID Levels	RAID 0, 1, 1E, 5, 6, 10, 50, 60 - Any combination of these RAID levels can exist at the same time
RAID Flexibility	Configurable RAID stripe size: 64K, 128K, 256K, 512K and 1MB stripe size per disk Background task priority tuning: adjustment of minimum I/O reserved for server use during all background tasks
Hot spares	Multiple global or dedicated hot-spare drives with revert options
Max Logical Drives per subsystem	256 in any combination of RAID levels and array types
Max Logical Drives per array	32 logical drives (LUNs); Supports LUN Carving by allowing an array to be divided into multiple logical drives; RAID level, stripe size, sector size and cache policy can be configured per LUN. Supports out of order logical drive deletion and re-creation out of order logical drive deletion and re-creation
Max LUNs per Target ID	Up to 256
LUN Masking and Mapping	Supports up to 128 initiators based on FC WWPN
RAID Robustness	Physical Drive Error Recovery: PDM (Predictive Data Migration): Replace un-healthy disk member in array, and keep array on normal status during the data transition between healthy PD and replaced PD, Bad Sector Re-mapping, Media Patrol, SMART, Intelligent error recovery mechanisms for erroneous RAID members, RAID 5/6 inconsistent data Prevent (Write Hole Table), Data Content Error Prevention (Read/Write Check Table) NVRAM event logging

System Management	
Supported Operating Systems	Windows 2000, Windows 2003, Linux (Red Hat, SuSE), Macintosh OS X, Solaris
Management Tools	Operating System independent; Localized in multiple languages; SSL Security support; StorageWatch, Web based GUI, via Ethernet port; Command Line Interface and Utility via Serial Port or Ethernet (Telnet); Auto, Express and Advanced configuration support for novice and skilled users. Seamless software failover and failback on management Ethernet port
Management Interfaces/Protocols	Embedded Web server and mgmt support - No host agent is needed; Ethernet, RJ-11 Serial Port; CIM/WBEM, SNMP, SSL, SLP, Telnet

Mechanical Specifications	
Voltage	100-240 Vac Auto-Ranging
Current (Maximum)	8 A @ 100 Vac; 4 A @ 200 Vac (current rating with two power cords)
Frequency	50-60 Hz
Power Supply	Dual 400W, hot swap and redundant with PFC, N+1 design swap and redundant
Operating Temperature	5° -40°C (-40° -60°C non operational)
Relative Humidity	Maximum 95%
Dimensions (H x W x D)	8.8 x 44.4 x 56.1 cm (3.5 x 17.5 x 22.1in)
Weight	Net weight (system only): 26 kg (57 lbs) without drives, 32 kg (71 lbs) with 12 drives** Gross weight (including carton): 29kg (64 lbs) without drives