

# HS2-2412

HOWARD STORAGE INNOVATION POWERED BY



## Best-in-class value and performance

Get the data storage you need with the speed and performance you want at a budget-friendly price. Tall order? Not with Howard's HS2-2412. This 2U rackmount chassis enables even the smallest business to get data to applications fast, with 725K IOPS random read, 10GB/s write throughput. Standard features include Virtual pools, for load balancing and high availability; Thin provisioning to ensure optimal storage; ADAPT, SSD read cache, and encryption. Optional features include auto-tiering, snapshots, and asynchronous replication. Maximize your storage capacity while you minimize costs with the HS2-2412 storage solution from Howard.

# HS2-2412 Howard Storage Solution powered by SEAGATE

SPECIFICATIONS	
4006 Controller Performance	4006 VELOSCT Controller Performance   725K IOPS (Random Read, 10GB/s write throughput)
Total BODs	Maximum 10 enclosures including the master, totaling 120 physical drives
Advanced Software Features (Optional)	Auto-tiering, Snapshots, Asynchronous replication
Base Array Software Features	Virtual pools, Thin provisioning, ADAPT, SSD read cache, Encryption
High Availability Features	Redundant hot-swap controllers   Redundant hot-swap drives, fans, power   Dual power cords   Hot standby spare   Automatic failover   Multi-path support
Device Support	SAS HDD, NL-SAS HDD, SAS SSD
Data Protection	Seagate ADAPT   RAID levels supported: 0, 1, 3, 5, 6, and 10
System Configuration (12, 3.5-in devices)	Up to 12 drives per chassis   216TB max capacity per chassis (based on 18T)
Physical	Height: 87.9mm / 3.46 in   Width: 443mm / 17.44 in   Depth: 630mm / 24.8 in   Width w/ear mounts: 483mm / 19.01 in   Weight: 17kg / 38 lb   Weight (with drives): 32kg / 71 lb
HOSTS	
External Ports	8 Ports per system
Fibre Channel Models	Host speed: 32/16 Gb/s Fibre Channel, Interface type: SFP+/SFP28
iSCSI Models	Host speed: 10Gb/s, 25Gb/s iSCSI, Interface type: SFP+/SFP28
SAS Models	Host speed: 12Gb/s, 6Gb/s SAS   Interface type: HD Mini-SAS
Ethernet	10GBASE-T (auto-negotiation to 1Gb)
SYSTEM CONFIGURATION	
System Memory	48GB per system
Volumes Per System	1024
Cache	Mirrored cache: Yes   Supercapacitor cache backup: Yes   Cache backup to flash: Yes- non-volatile
MANAGEMENT	
Interface Types	10/100/1000 Ethernet, Mini USB
Protocols Supported	SNMP, SSL, SSH, SMTP, HTTP(S)
Management Consoles	Web GUI, CLI
Management Software	Seagate Systems storage management console   Remote diagnostics   Nondisruptive updates   Volume expansion
POWER REQUIREMENTS-AC INPUT	
Input Power Requirements	100V-240V AC 60Hz/50Hz
Max Power Output per PSU	580W
ENVIRONMENTAL/TEMP RANGES	
Operating/Non-Operating Temperature	ASHRAE A2, 5°C to 35°C (41°F to 95°F), derate 1°C/300m above 900m, 20°C/hr max rate of change / -40°C to 70°C (-40°F to 158°F)
Operating/Non-Operating Humidity	-12°C DP   10% RH to 21°C DP   80% RH, max DP 21°C / 5% to 100% noncondensing