

# AGILE STORAGE ASM-4136H

Backup & Archive Appliance

# AGILE STORAGE



powered by 

ASM-4136H Backup & Archive Appliances are based on Intel® Xeon® E3-1200 v5/v6 architecture in 4U form factor. Populated with 36x 2,5" / 3,5" SAS-3 drive bays, (24x front bay & 12x rear bays). Two additional 2,5" caching device drive bays at rear. ASM-4136H systems offer excellent reliability and high density up to 432TB raw capacity in 4U.

Excellent Performance: Single Socket Intel® Xeon® E5-1200 v5/v6 CPU architecture with up to 64GB memory and the use of two caching SSD's drives guarantee excellent highest possible storage system performance at lowest possible cost.

Network Connection: Basic system configuration contains four 1G-Base-T & two 10GbE SFP+ Network Ports and one shared IPMI RJ45 Network Port. Optional offering through standard network card: Two 25GbE QSFP+ ports for high speed network performance.

Modular cableless design: The controller, fan, power supply and hard disk all adopt modular design, which greatly improves the reliability and heat dissipation performance of the system, and the fan noise is reduced to below 50 decibels.

- ◇ 4U1N 36Bay SAS-3 system architecture
- ◇ Single controller system design
- ◇ Up to 432TB capacity in base enclosure
- ◇ Dual caching SSD device drive bays
- ◇ Inline deduplication (optional)
- ◇ Up to 11,25 TB/hour Data Throughput



## Flexibility - Efficiency - Cost Effective

The flexibility of the ASM-4136H, based on its broad protocol support (SMB 2.x / SMB 3.x / NFS v3 / NFS v4 / iSCSI) offers easy integration into any Backup- and/or Archive software. By using the integrated caching devices, inline data deduplication can be enabled and combined with our highly efficient compression. This feature makes the ASM-4136H space efficient and extremely cost-effective.



## AGILE-EVOLUTION STORAGE

AGILESTORAGE appliances are not aging, they enhance with time. In fact, ASM-4136H is just a seamless, non-disruptive upgrade away from the next AGILESTORAGE appliance generation.

It's all part of AGILE-EVOLUTION STORAGE, our progressive and future proof ownership model, which delivers continuous innovations in software and hardware to you with no forklift upgrades, and no data migrations.

## WASP is changing the storage DNA

The WASP OS from AGILESTORAGE™ is a full-featured storage operating system designed for virtualized environments and cloud deployments.

WASP provides dynamically selectable performance to each application or tenant by continuously monitoring and adjusting key storage performance characteristics including IOPS, throughput and latency.

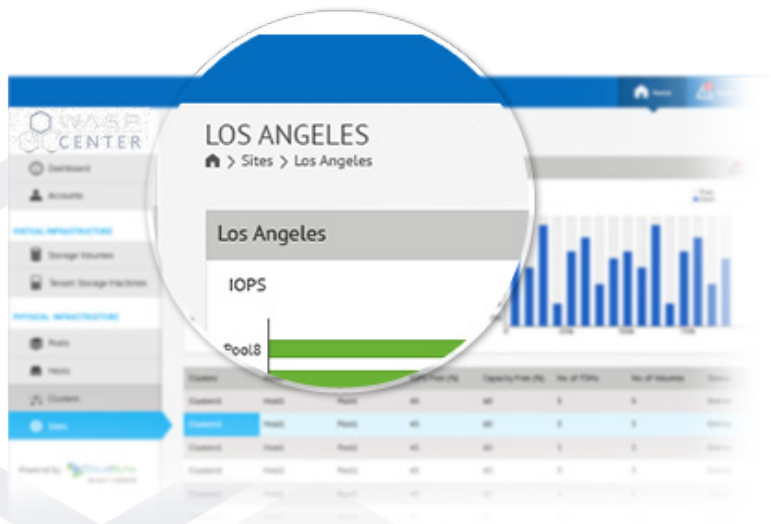
Based on WASP's embedded analytics capabilities, an application's performance needs also can be dynamically adjusted by the administrator for the ultimate in flexibility.



## Ease of Use - Low Management Cost

WASPcenter, the web-based centralized management console controls **AGILESTORAGE™** environment worldwide from a single site to multiple geographically dispersed clusters.

Know how each Virtual Storage Machine performs in real time, from active IOPS vs Scheduled IOPS to read/write ratios and block size, using WASP Storage Analytics.



## Guaranteed Storage Performance

WASP is the only Software defined Storage Solution offering features such as secure isolation and guaranteed storage performance to each application or VM, sharing the same appliance hardware.

Based on this patented storage software architecture, cost savings up to 70% can be achieved in multiple application environments, compared with traditional legacy storage deployments.

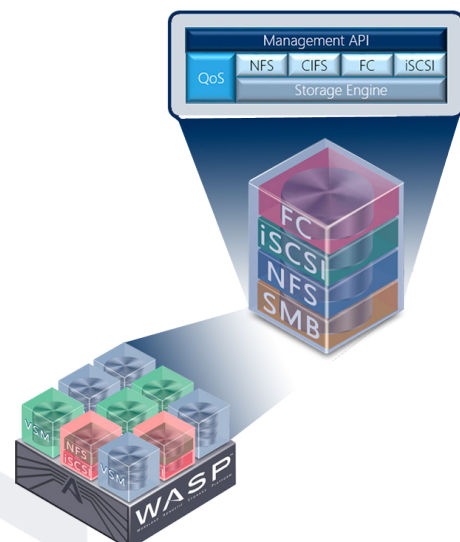
The VSM architecture also offers vMotion-like storage migration across different storage qualities, physical appliances and datacenters. WASP Appliances are seamlessly scalable from a few TB up to 8.64 PB in 24U.

## VSM - Virtual Storage Machines

Our WASP based storage system is designed and built from the ground up for multi-tenancy. With our WASP storage system, each application is fully isolated at all storage stack levels and unified under a Virtual Storage Machine (VSM).

With completely isolated applications and controller resources allocated to each application can now easily monitored, controlled, and provisioned. As we'll see in detail in the previous section. WASP storage systems also intelligently provisions controller resources to each application, based on the application's QoS requirements (IOPS, latency and throughput).

Further, each application's data can now be optionally encrypted to provide additional security.



# Technical specifications

<b>Model Name</b>	<b>ASM-4136N</b>
Positioning	Single controller (Backup & Archive)
Form Factor	4UIN 19" rack mount
Processor	Single Socket (per controller node) Intel® Xeon® E3-1200 v5/v6 CPU up to 84W
Memory Slot	4x DDR4 DIMM slot per controller (max. 64GB)
Chipset	Intel® PCH Lynx point C232/C236
Storage Controller	M.2 NVMe Boot Device LSI 12Gb/s SAS-3 controller SAS-3 expander midplane 6Gb/s SATA controller
Network Controller	4x 1GBase-T network port 2x 10GbE SFP+ network port <b>Optional:</b> 25GbE QSFP+ dual port network card
Expansion Slot	2x PCIe Gen3 x16 Low profile
Disk Drive Bay	Internal: 1x OS drive M.2 2280 NVMe SSD Front: 24x 2.5" / 3.5" SAS-3 hot-plug bays Rear: 12x 2.5" / 3.5" SAS-3 hot-plug bays 2x 2.5" hot-plug caching drive bays
System Management	IPMI 2.0 compliant Dedicated Management Port RJ45
Power Supply	800W Platinum PSU 1+1 redundancy

Performance	up to 24'500 IOPS at 128K (sequential write)
Throughput	up to 11.25 TB/h sequential write at 128k
Scalability	<b>4U base system enclosure</b> up to 432TB raw hybrid storage capacity up to 15.36 TB flash based caching
Connectivity	4x 1G / 2x 10G Ethernet (2x 25G optional)
Storage protocol	SMB 2.x / SMB 3.x / NFS v3 / NFS v4 / iSCSI OpenStack / CloudStack
RoHS	RoHS Compliant
Environmental specs.	Operating Temperature: 5°C to 37°C Non-operating Temperature: -40°C to 60°C Operating relative Humidity: 8% to 90% Non-operating relative Humidity: 5% to 95%
Dimension Weight	550mm * 448mm * 177mm (L * W * H) 23.5kg net weight / 34,6kg gross weight



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