Ultra
HARDWARE PLATFORM

POWERED BY: atlas

MOMENTUM SERIES

open DRIVES

Momentum
Series

When performance and cost efficiency are a must

Functional Summary

The Momentum enterprise storage solution combines architectural flexibility and scalability with cost-efficient HDD capacity modules. The Momentum, built on the Ultra Hardware Platform, is intended for businesses needing a powerful enterprise storage solution with more cost-efficient capacity options. Powered by our Atlas software, the Momentum offers not only performance, cost-effectiveness, and the ability to scale but also provides robust data integrity, ease of use, and transparent centralized management. The following table includes the Momentum's operational specifications.

Technical Specifications

Momentum 5 overview	
Network protocols	SMB up to v3.1.1
	NFS up to v4.2
	S3 object API
Notification & monitoring	SMTP, Webhooks/API, SNMP, OpenMetrics and more
Management	Secure web interface, RESTful API

Configuration				
CPU	12 cores @ 1.9 GHz			
RAM	512 GB DDR4 ECC			
	Ports	Speed	Connector	Supported speeds
Ethernet connectivity	4	100 Gbps	QSFP28	1/10/25/40/50/100 GbE
	2	10 Gbps	RJ45	1/10 GbE
Out-of-band management	IPMI 2.0/Redfish			
System drives	Mirrored hot-swappable SSDs			
Supported platforms	Atlas 1.5 or later			
High availability compatible	Yes			
Maximum H modules	16			
Maximum HD or HDX modules	4			

Dimensions	
Form factor	2 rack units (RU)
Physical height	3.5 in (8.9 cm)
Physical width	17.5 in (44.5 cm)
Physical depth	21 in (53.3 cm)

Power	
Power supplies	Dual redundant 800W
Power supply input	100–240 VAC / 50–60 Hz
Power certification	Platinum
Steady power	350 W

Environment temperature range	
Operating temperature	50 – 85°F (10 – 30°C)
Non-operating temperature	14 – 122°F (-10 – 50°C)

Supported Capacity Module Specifications

Attributes	H Module	HD Module*	HDX Module
Solution type	HDD	HDD	HDD
Drive interface	12 Gb SAS	12 Gb SAS	12 Gb SAS
Drive form factor	3.5 in	3.5 in	3.5 in
Drive count	21	60	102

Power	H Module	HD Module	HDX Module
Power supplies	Dual redundant 800W	Dual redundant 1600W	Dual redundant 1600W
Power supply input	100–240 VAC / 50–60 Hz	200–240 VAC / 50–60 Hz	200–240 VAC / 50–60 Hz
Power certification	Platinum	Platinum	Platinum
Steady power	250 W	600 W	950 W

Dimensions	H Module	HD Module	HDX Module
Form factor	2RU	4RU	4RU
Physical height	3.5 in (8.9 cm)	6.9 in (17.5 cm)	6.9 in (17.5 cm)
Physical width	17.5 in (44.5 cm)	17.6 in (44.7 cm)	17.6 in (44.7 cm)
Physical depth	21 in (53.3 cm)	35 in (89 cm) w/ CMA*	47.1 in (119.7 cm) w/ CMA*
Physical weight (racked)	68.5 lbs (31.1 Kg)	179 lbs (81 Kg)	262 lbs (118 Kg)

Temp. range	H Module	HD Module	HDX Module
Environment operating temperature	50 – 80°F (10 – 26°C)	41 – 95°F (5 – 35°C)	41 – 95°F (5 – 35°C)
Environment non-operating temperature	14 – 122°F (-10 – 50°C)	-22 – 140°F (-30 – 60°C)	-22 – 140°C (-30 – 60°C)

Options	H4	H8	H12	H16	H20	HD18	HD20	HDX18	HDX20
Drive sizes	4 TB	8 TB	12 TB	16 TB	20 TB	18 TB	20 TB	18 TB	20 TB
Pool usable capacity**	49 TB	99 TB	148 TB	197 TB	247 TB	729 TB	810 TB	1275 TB	1417 TB

* HD and HDX modules require deep racks
** Based on all drives in OpenDrives standard dual parity pool

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