



# Optimum Series

When flexibility and options are key

## Functional Summary

The Optimum enterprise storage solution combines architectural flexibility and scalability with the ability to select all-flash NVMe and HDD capacity modules. The Optimum is intended for businesses needing multiple storage capacity options while leveraging the performance of this workhorse storage solution. Powered by our Atlas software, the Optimum offers not only performance and scale but also provides robust data integrity, ease of use, and transparent centralized management. The following table includes the Optimum's operational specifications.

## Technical Specifications

### Optimum 15 overview

Throughput	Up to 15 GB/s
Network protocols	SMB up to v3.11
	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	8 cores @ 3.8 GHz			
RAM	1 TB DDR4 ECC			
	<b>Ports</b>	<b>Speed</b>	<b>Connector</b>	<b>Supported speeds</b>
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 F or FD modules	1			
Maximum H, HD, or HDX modules	16			

### 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	F Module	FD Module
Solution type	Flash	Flash
Drive interface	NVMe over PCIe	NVMe over PCIe
Drive form factor	2.5 in, U.2	2.5 in, U.2
Drive count	8	24

Power	F Module	FD Module
Power supplies	Dual redundant 800W	Dual redundant 800W
Power supply input	100–240 VAC / 50–60 Hz	100–240 VAC / 50–60 Hz
Power certification	Platinum	Platinum
Steady power	220 W	450 W

Dimensions	F Module	FD Module
Form factor	2RU	2RU
Physical height	3.5 in (8.9 cm)	3.5 in (8.9 cm)
Physical width	17.5 in (44.5 cm)	17.5 in (44.5 cm)
Physical depth	14.3 in (36.2 cm)	14.3 in (36.2 cm)
Physical weight (racked)	32.4 lbs (14.7 Kg)	40.8 lbs (18.5 Kg)

Temp. range	F Module	FD Module
Environment operating temp.	50 – 85°F (10 – 30°C)	50 – 85°F (10 – 30°C)
Environment non-operating temp.	14 – 122°F (-10 – 50°C)	14 – 122°F (-10 – 50°C)

Options	F1	F2	F4	FD2	FD4	FD8	FD16	FD30
Drive sizes	960 GB	1.92 TB	3.84 TB	1.92 TB	3.84 TB	7.68 TB	15.36 TB	30.72 TB
Pool usable capacity*	4.8 TB	9.6 TB	19.2 TB	30 TB	60 TB	115 TB	230 TB	460 TB

\* Based on all drives in OpenDrives standard dual parity pool

## Supported Capacity Module Specifications (continued)

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 (118.8 Kg)

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

Options	H4	H8	H12	H16	HD16	HD18	HDX16	HDX18
Drive sizes	4 TB	8 TB	12 TB	16 TB	16 TB	18 TB	16 TB	18 TB
Pool usable capacity†	50 TB	100 TB	150 TB	200 TB	648 TB	729 TB	1134 TB	1275 TB

\*\* HD and HDX modules require deep racks

† Based on all drives in OpenDrives standard dual parity pool