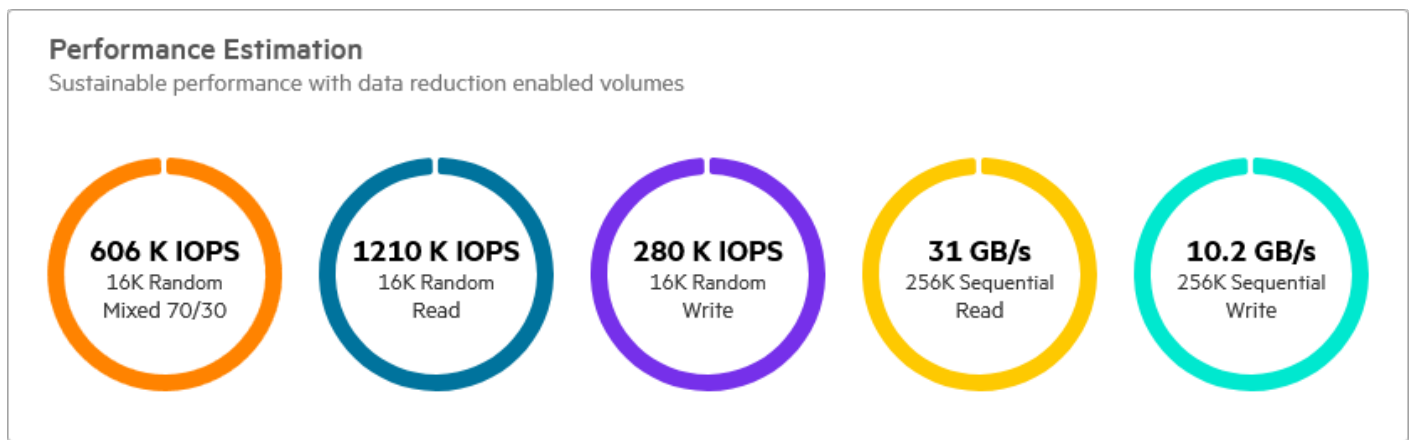
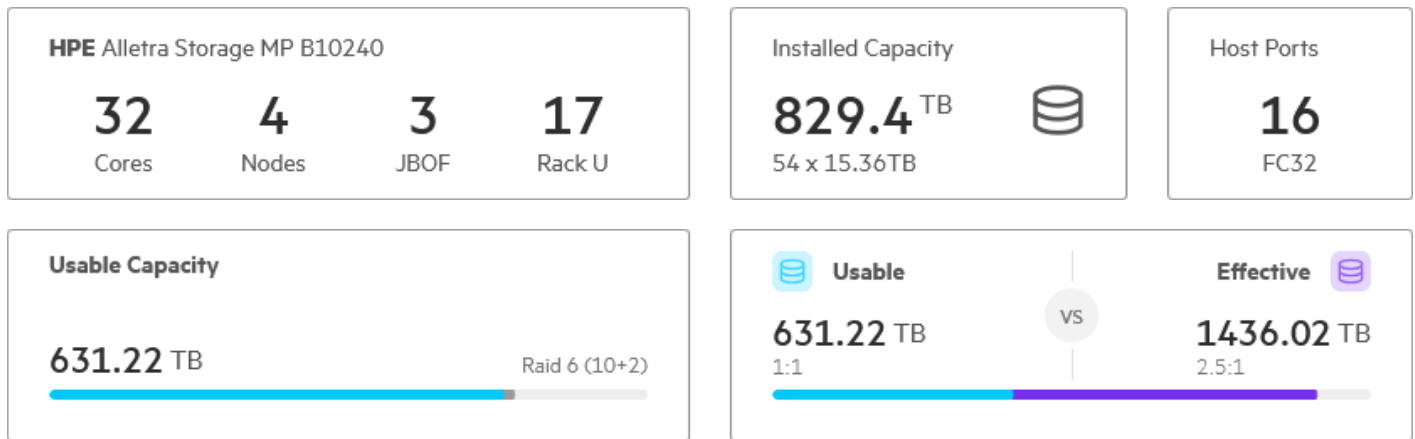




HPE Alletra Storage MP B10000 Sizing

March 18, 2025





<p>Power Consumption 1600W Power Supply - 230v</p>	<p>Total PS 14</p>	<p>Total Power 6.21 kW</p>	<p>Idle Power 3.48 kW</p>
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HPE Alletra Storage MP B10000

Mission-critical storage now available at mid-range economics

Industry's first disaggregated, scale-out block storage with **100% data availability** guaranteed



Simplify management
with an intuitive cloud experience on prem

Better performance, better economics
with disaggregated scale-out storage

Run any app without compromise
with a 100% data availability guarantee



CAPACITY

The total installed physical capacity is 829.44 TB (754.31 TiB).

The **Effective Capacity** denotes the usable data space that can be written to the system by hosts and applications. It takes into account the benefits of data deduplication and compression. It includes a 9% free space headroom to ensure optimal array operation.

The sizing has been provided using a data reduction ratio of 3:1 with 10% of the capacity that is not subject to data reduction such as pre-compressed or encrypted data.

DRIVES	RAID	RAW	SPARES	EFFECTIVE
54 x 15.36 TB NVMe SED SSD	Raid 6 (10+2)	754.31 TiB	13.97 TiB	1306.06 TiB
		829.44 TB	15.36 TB	1436.02 TB

Note

Clones, Snapshots or Thin Provisioning volumes can alter the effective capacity calculations and are therefore excluded from said effective capacity/ data reduction ratio calculations.



Bill of materials

Qty	Part Number	Description
1	S1R06A	HPE Alletra Storage MP B10000 Base Cluster Configuration
2	R7C75A	HPE Alletra Storage MP 10000 2U Chassis
10	R7C76A	HPE Alletra Storage MP C14 1600W AC Power Supply
5	R9R52A	HPE C13 - C14 250V 10Amp Black 1.4m WW Power Cord
5	R9S00A	HPE C13 - C14 250V 10Amp Gray 1.4m WW Power Cord
4	R7D03A	HPE Alletra Storage MP B10240 Controller Node
14	S2A68A	HPE Alletra Storage MP 100GbE 2-port OCP Host Bus Adapter
28	R9F76A	Aruba 100G QSFP28 to QSFP28 2m Active Optical Cable for HPE
4	S2S64A	HPE Alletra Storage MP 32Gb 4-port Fibre Channel OCP LPm37004 Host Bus Adapter
8	S3N85A	HPE 32Gb SFP28 Short Wave 1-pack Pull Tab Optical Transceiver
2	S1R08A	HPE Alletra STG MP 32-port 100GbE Switch Bundle
2	S3L68A	HPE C13 - C14 250V Blk 2m WW Pwr Cord
2	S3L69A	HPE C13 - C14 250V Gry 2m WW Pwr Cord
1	S0A95A	HPE Switch Pair Installation Kit
3	S1J10A	HPE Alletra Storage MP 10001 NVMe Configure-to-order Expansion Shelf
6	S1R28A	HPE Alletra Storage MP 10010 Expansion Shelf Node
54	R9H69A	HPE Alletra Storage MP 15.36TB NVMe SFF Self-encrypting SSD
1	S0A98A	HPE Storage Data Encryption LTU
1	S3Q00A	HPE Alletra Storage MP B10000 OS per TB 3-year LTU
829	S3Q00AAE	HPE Alletra Storage MP B10000 OS per TB 3-year Software and Support SaaS



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