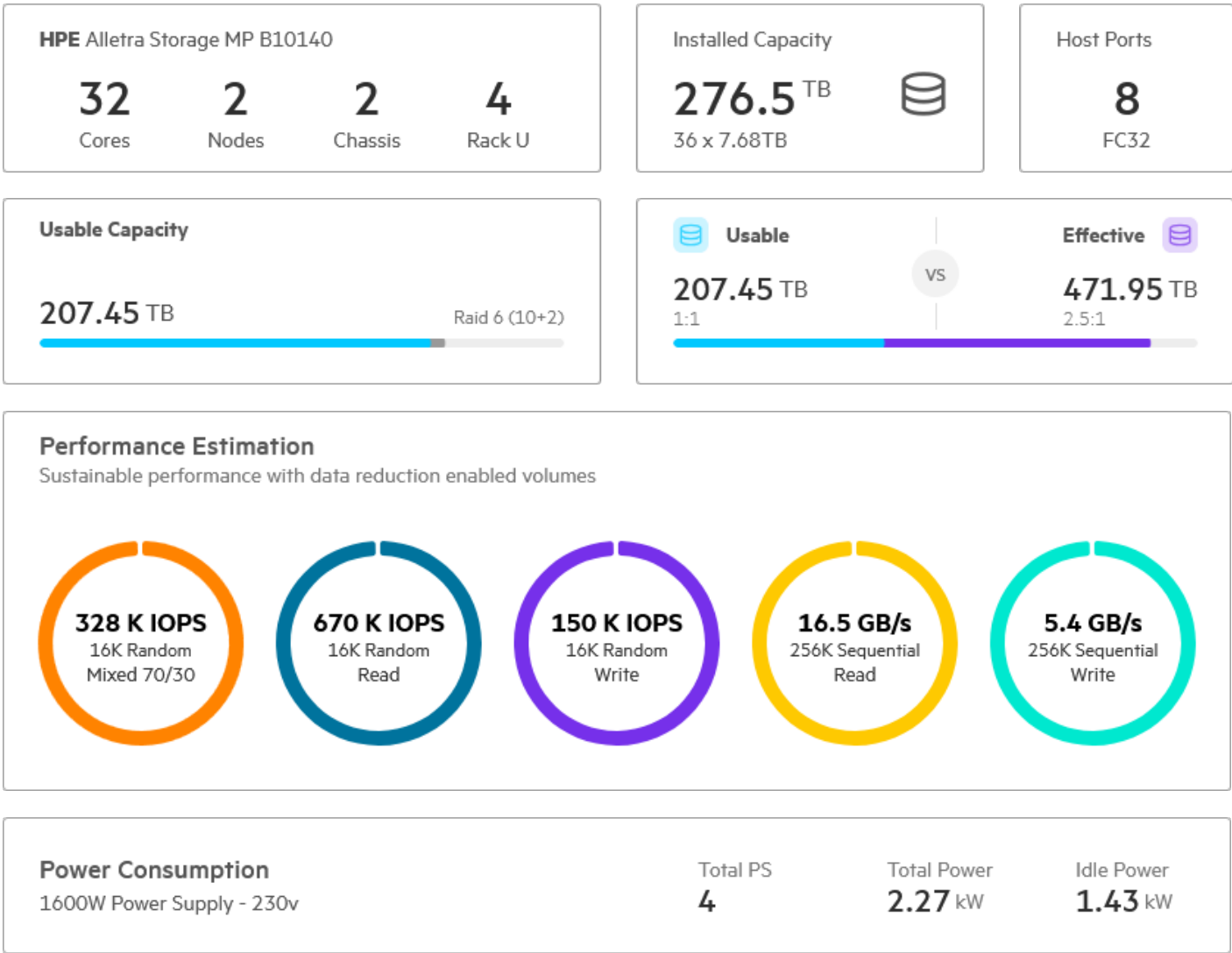




# HPE Alletra Storage MP B10000 Sizing

March 17, 2025





## CAPACITY

The total installed physical capacity is 276.48 TB (251.44 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
36 x 7.68 TB NVMe SED SSD	Raid 6 (10+2)	251.44 TiB	6.98 TiB	429.24 TiB
		276.48 TB	7.68 TB	471.95 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	S0B84A	HPE Alletra Storage MP B10000 Base Configuration
1	R7C75A	HPE Alletra Storage MP 10000 2U Chassis
4	R7C76A	HPE Alletra Storage MP C14 1600W AC Power Supply
2	R9R52A	HPE C13 - C14 250V 10Amp Black 1.4m WW Power Cord
2	R9S00A	HPE C13 - C14 250V 10Amp Gray 1.4m WW Power Cord
2	S0S39A	HPE Alletra Storage MP B10140 Controller Node
6	S2A68A	HPE Alletra Storage MP 100GbE 2-port OCP Host Bus Adapter
2	R8M59A	HPE 100G QSFP28 to QSFP28 0.5m Direct Attach Copper Cable
2	S2S64A	HPE Alletra Storage MP 32Gb 4-port Fibre Channel OCP LPm37004 Host Bus Adapter
4	S3N85A	HPE 32Gb SFP28 Short Wave 1-pack Pull Tab Optical Transceiver
1	S1J10A	HPE Alletra Storage MP 10001 NVMe Configure-to-order Expansion Shelf
2	S1R28A	HPE Alletra Storage MP 10010 Expansion Shelf Node
2	R9F77A	Aruba 100G QSFP28 to QSFP28 1m Direct Attach Copper Cable for HPE
36	R9H68A	HPE Alletra Storage MP 7.68TB 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
276	S3Q00AAE	HPE Alletra Storage MP B10000 OS per TB 3-year Software and Support SaaS



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