



Technical specifications

The following tables present the technical specifications for the PM1743 SSDs. Note that the performance data and power consumption is based on a PCIe 5.0 host interface.

Tip: 2.5-inch and E3.S 1T drives have the same performance data Table 2. Technical specifications

Feature	1.92 TB drive	3.84 TB drive	7.68 TB drive	15.36 TB drive
Interface	PCIe 5.0 x4	PCIe 5.0 x4	PCIe 5.0 x4	PCIe 5.0 x4
Form factors	2.5-inchE3.S 1T	2.5-inchE3.S 1T	2.5-inchE3.S 1T	2.5-inchE3.S 1T
Capacity	1.92 TB	3.84 TB	7.68 TB	15.36 TB
SED encryption	TCG Opal 2.0	TCG Opal 2.0	TCG Opal 2.0	TCG Opal 2.0
Endurance(total bytes written)	3504 TB	7008 TB	14,016 TB	28,032 TB
Endurance (drivewrites per day for 5 years)	1 DWPD	1 DWPD	1 DWPD	1 DWPD
Data reliability (UBER)	< 1 in 10 bits read	< 1 in 10 bits read	< 1 in 10 bits read	< 1 in 10 bits read
MTBF	2,500,000 hours	2,500,000 hours	2,500,000 hours	2,500,000 hours
Performance & Power - PCIe 5.0 host interface				
IOPS reads (4 KB blocks)	2,000,000	2,500,000	2,500,000	2,500,000
IOPS writes (4 KB blocks)	150,000	280,000	300,000	360,000
Sequential read rate (128 KB blocks)	14,000 MBps	14,000 MBps	14,000 MBps	14,000 MBps
Sequential write rate (128 KB blocks)	3000 MBps	6000 MBps	6000 MBps	7100 MBps
Latency (random R/W)	60 µs / 20 µs	60 µs / 20 µs	60 µs / 20 µs	90 µs / 20 µs
Latency (sequential R/W)	70 µs / 130 µs	70 µs / 80 µs	80 µs / 80 µs	80 µs / 60 µs
Typical power (R/W)	19.9 W / 15.5 W	20.9 W / 21.2 W	23 W / 21.1 W	24.6 W / 25 W
Performance & Power - PCIe 4.0 host interface				
IOPS reads (4 KB blocks)	1,700,000	1,700,000	1,700,000	1,700,000
IOPS writes (4 KB blocks)	150,000	280,000	300,000	360,000
Sequential read rate (128 KB blocks)	7500 MBps	7500 MBps	7500 MBps	7500 MBps
Sequential write rate (128 KB blocks)	3000 MBps	6000 MBps	6000 MBps	7000 MBps
Latency (random R/W)	60 µs / 20 µs	60 µs / 20 µs	60 µs / 20 µs	90 µs / 20 µs
Latency (sequential R/W)	70 µs / 130 µs	70 µs / 80 µs	80 µs / 80 µs	80 µs / 60 µs

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