Dell Enterprise Agnostic NVMe Drive

Technical Specifications and Information

Notes, cautions, and warnings

(i) NOTE: A NOTE indicates important information that helps you make better use of your product.

⚠ CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

⚠ WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

Technical Specifications and Information

Use these specifications and model-specific information to ensure optimal functioning of your Dell Enterprise Agnostic NVMe drive.

Table 1. Technical specifications

Features	Dell Enterprise Agnostic Read Intensive NVMe drive	Dell Enterprise Agnostic Mixed Use NVMe drive
Media type	3D TLC NAND	3D TLC NAND
Capacities or form factors	1.92 TB U.2 3.84 TB U.2 7.68 TB U.2	1.6 TB U.2 3.2 TB U.2 6.4 TB U.2
User-addressable 512-byte sectors	1.92 TB: 3,750,748,848 3.84 TB: 7,501,476,528 7.68 TB: 15,002,931,888	1.6 TB: 3,125,627,568 3.2 TB: 6,251,233,968 6.4 TB 12,502,446,768
Host bus interface	PCIe Gen 4.0 x 4	PCIe Gen 4.0 x 4
FIPS Support	Yes	Yes
Device protocol	NVM Express 1.3	NVM Express 1.3
TCG support	TCG Storage Security Subsystem Class: Opal Specification Version 2.01 Revision 1.00.	TCG Storage Security Subsystem Class: Opal Specification Version 2.01 Revision 1.00.
Instant Secure Erase (ISE) support	National Institute for Standards and Technology (NIST) Special Publication 800-88 Revision 1, Guidelines for Media Sanitization.	National Institute for Standards and Technology (NIST) Special Publication 800-88 Revision 1, Guidelines for Media Sanitization.
Bootable device	Yes, UEFI mode only	Yes, UEFI mode only
Surprise removal support	Yes Minimum version of operating system required to support surprise removal: ● Windows 2019 and later ● RHEL 8.2 ● SLES 15 SP2 ● Ubuntu 20.4 ● ESX 7.0 (with exceptions)	Yes Minimum version of operating system required to support surprise removal: ● Windows 2019 and later ● RHEL 8.2 ● SLES 15 SP2 ● Ubuntu 20.4 ● ESX 7.0 (with exceptions)
Endurance rating (TBW)	1.92 TB: 1 DWPD, 3,540 TB 3.84 TB: 1 DWPD, 7,008 TB 7.68 TB: 1 DWPD, 14,016 TB	1.6 TB: 3 DWPD, 8,760 TB 3.2 TB: 3 DWPD, 17,520 TB 6.4 TB: 3 DWPD, 35,040 TB
Data retention at maximum rated endurance as per JEDEC requirements	3 months at 40ºC	3 months at 40ºC

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Features	Dell Enterprise Agnostic Read Intensive NVMe drive	Dell Enterprise Agnostic Mixed Use NVMe drive
Power	12 V, 3.3 V aux, supply rail 5.0 W idle, typical 25 W active, max	12 V, 3.3 V aux, supply rail 5.0 W idle, typical 25 W active, max
Operating temperature	0 °C–70°C, operating temperature	0 °C–70°C, operating temperature
Physical dimensions (width x length x thickness)	100.45 mm x 69.85 mm x 15.00 mm	100.45 mm x 69.85 mm x 15.00 mm
Weight	150g +/- 15g	150g +/- 15g
Shock	1,000 G/0.5 millisecond	1,000 G/0.5 millisecond
Vibration	2.17 Grms, 5 Hz ~ 800 Hz	2.17 Grms, 5 Hz ~ 800 Hz
IOPS, 4K random read (16 queue depth; 16 workers)	1.92 TB: up to 920,000 IOPS 3.84 TB: up to 1,360,000 IOPS 7.68 TB: up to 1,360,000 IOPS	1.6 TB: up to 870,000 IOPS 3.2 TB: up to 1,260,000 IOPS 6.4 TB: up to 1,330,000 IOPS
IOPS, 4K random write (16 queue depth; 16 workers)	1.92 TB: up to 100,000 IOPS 3.84 TB: up to 130,000 IOPS 7.68 TB: up to 130,000 IOPS	1.6 TB: up to 170,000 IOPS 3.2 TB: up to 200,000 IOPS 6.4 TB: up to 200,000 IOPS
Sequential read (128K queue depth; 1 worker)	1.92 TB : 6.2 GB/s 3.84 TB : 6.2 GB/s 7.68 TB : 6.2 GB/s	1.6 TB: 6.2 GB/s 3.2 TB: 6.2 GB/s 6.4 TB: 6.2 GB/s
Sequential write (128K queue depth; 1 worker)	1.92 TB: 2.3 GB/s 3.84 TB: 3.5 GB/s 7.68 TB: 3.5 GB/s	1.6 TB: 2.1 GB/s 3.2 TB: 3.4 GB/s 6.4 TB: 3.4 GB/s
Latency 4K random read (1 queue depth)	1.92 TB: 86 µs 3.84 TB: 86 µs 7.68 TB: 86 µs	1.6 TB: 86 µs 3.2 TB: 86 µs 6.4 TB: 86 µs
Latency 4K random write (1 queue depth)	1.92 TB: 15 µs 3.84 TB: 15 µs 7.68 TB: 15 µs	1.6 TB: 15 µs 3.2 TB: 15 µs 6.4 TB: 15 µs

Minimum supported operating systems

(i) **NOTE:** Supported on all operating systems using the included native drivers.

- Microsoft
  - Windows Server 2019
  - Windows Server 2016
- Linux
  - Red Hat Enterprise Linux 7.6

- SUSE Linux Enterprise Server 15
- Ubuntu
  - Ubuntu 18.04.2
- VMware
  - ESXi 7.0
  - ESXi 6.7 U.3