

Dell Datacenter Agnostic R.I. NVMe Drive

Technical Specifications and Information

Notes, cautions, and warnings

 **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 Datacenter Agnostic Read Intensive NVMe drive.

Table 1. Technical specifications


Features	Dell Datacenter Agnostic Read Intensive NVMe drive
Media type	3D TLC NAND
Capacities or form factors	960 GB U.2 1.92 TB U.2 3.84 TB U.2 7.68 TB U.2
User-addressable 512-byte sectors	960 GB: 1,875,385,008 1.92 TB: 3,750,748,848 3.84 TB: 7,501,476,528 7.68 TB: 15,002,931,888
Host bus interface	PCIe Gen 4.0 x 4
FIPS Support	No
Device protocol	NVM Express 1.3c
TCG support	TCG Storage Security Subsystem Class: Opal Specification Version 2.0
Instant Secure Erase (ISE) support	National Institute for Standards and Technology (NIST) Special Publication 800-88 Revision 1, Guidelines for Media Sanitization.
Multiple namespaces support	Yes, up to 16
Bootable device	Yes, UEFI mode only
Surprise removal support	Yes
Endurance rating (TBW)	960 GB: 1 DWPD, 1,752 TB 1.92 TB: 1 DWPD, 3,504 TB 3.84 TB: 1 DWPD, 7,008 TB 7.68 TB: 1 DWPD, 14,016 TB
Data retention at maximum rated endurance as per JEDEC requirements	3 months at 40°C
Power	12 V, 3.3 V aux, supply rail 5.0 W idle, typical 25 W active, max

Table 1. Technical specifications (continued)

Features	Dell Datacenter Agnostic Read Intensive NVMe drive
Operating temperature	0 °C–70°C, operating temperature
Physical dimensions (width x length x thickness)	69.85 mm x 100 mm x 14.75 mm
Weight	150g +/- 15 TB
Shock	1,500G, Duration 0.5 ns
Vibration	20G, 20~2KHz
IOPS, 4K random read	960 GB: up to 555,000 IOPS 1.92 TB: up to 975,000 IOPS 3.84 TB: up to 1,300,000 IOPS 7.68 TB: up to 1,190,000 IOPS
IOPS, 4K random write	960 GB: up to 70,000 IOPS 1.92 TB: up to 125,000 IOPS 3.84 TB: up to 160,000 IOPS 7.68 TB: up to 150,000 IOPS
Sequential read	960 GB: 5.9 GB/s 1.92 TB: 6.2 GB/s 3.84 TB: 6.2 GB/s 7.68 TB: 6.2 GB/s
Sequential write	960 GB: 1.4 GB/s 1.92 TB: 2.6 GB/s 3.84 TB: 4.1 GB/s 7.68 TB: 3.6 GB/s

Features	Dell Datacenter Agnostic R.I. NVMe drive
Latency 4K random read (1 queue depth)	960 GB: 60 µs 1.92 TB: 60 µs 3.84 TB: 60 µs 7.68 TB: 60 µs
Latency 4K random write (1 queue depth)	960 GB: 14 µs 1.92 TB: 14 µs 3.84 TB: 14 µs 7.68 TB: 14 µs

Minimum supported operating systems

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

- Microsoft
 - Windows Server 2022
 - Windows Server 2019
 - Windows Server 2016
- Linux
 - Red Hat Enterprise Linux 8.0
 - Red Hat Enterprise Linux 7.6
 - SUSE Linux Enterprise Server 15
- Ubuntu
 - Ubuntu 18.04
 - Ubuntu 20.04
- VMware
 - ESXi 7.0
 - ESXi 6.7