

# Western Digital Ultrastar DC SN650 7.68TB 2.5" U.3 NVMe G4 1 DWPD 15mm ISE WUS5EA176ESP5E3 / 0TS2374

Kod producenta: 0TS2374



Interfejs	NVMe G4
Technologia	3D TLC
Pojemność	7680 GB
Maks. prędkość odczytu	6500 MB/s
Maks. prędkość zapisu	1900 MB/s
IOPS 4kb random reads	705000
IOPS 4kb random writes	74000
Format	2.5" U.3 15mm
MTBF	2000000 h
Endurance	14.00 PBW
DWPD	1
Szyfrowanie	ISE
Wysokość	15 mm
Gwarancja	5 lat

## High Capacity NVMe™ SSD and Disaggregated Storage Architecture

As cloud and scale-out data centers have become more and more disaggregated, storage has been able to scale independently from compute, giving businesses elasticity during peak demands while avoiding data silos and improving TCO.

Disaggregating storage is ideal for cloud service providers. It offers a variety of storage services that combine to deliver a higher quality-of-service, improved performance consistency, and higher storage utilization. For scale-out data center customers, disaggregated storage

provides managed service providers to efficiently increase capacity for modern applications processing large unstructured datasets. As workloads grow to petabytes, high capacity, cost-optimized storage SSDs have an increasingly important role to play. The Ultrastar DC SN650 NVMe SSD can reduce those time-to-insights.

## PCIe<sup>®</sup> Gen 4.0

The new Ultrastar DC SN650 NVMe SSD includes the next generation

Western Digital<sup>®</sup> controller, PCIe Gen 4.0 interface, and Western Digital BiCS5 TLC 3D NAND.

BiCS5 TLC 3D NAND, with higher bit density per mm<sup>2</sup>, is the next generation

of 3D NAND driving higher capacities, up to 15.36TB<sub>1</sub>. With the latest PCIe

Generation 4.0, the Ultrastar DC SN650 enables performance at scale for

increasingly larger application workloads. Designed and built for the standard

2.5" SSD storage infrastructure, it includes support for U.2 and U.3 backplanes.

## Emerging Workloads

The Ultrastar DC SN650 NVMe SSD is optimized for cloud and scale-out

workloads requiring higher QoS consistency, and better storage utilization for

block, object or file storage.

Emerging workloads for big data, artificial intelligence, and machine learning are increasing in size and complexity. They are typically stored across distributed, tiered, or disaggregated architectures. The Ultrastar DC SN650 NVMe SSD is optimized for moving these large datasets fast and servicing multiple hosts with performance consistency, making them ideal for scaling capacity and maximizing GB/watt for these emerging larger workloads.

## Safeguarding data

The Ultrastar DC SN650 NVMe SSD ensures that if you lose power, you don't lose your data. The drive comes with Power Loss Protection that keeps your data safe should you experience a sudden and unexpected interruption in power supply. And if you ever need to decommission the drive, Secure Erase provides you with entire drive erase options.

## Reliability

The Ultrastar DC SN650 NVMe SSD is built for reliability, incorporating enterprise-class features such as power-loss protection, 2M hour reliability (projected) and 1 DW/D. And if that weren't enough, it also comes with a five-year limited warranty.

# Features

- Western Digital NVMe 1.4 Compliant Controller; PCIe 4.0
- Western Digital BiCS5 3D TLC NAND
- U.3 interface (U.2 backplane compatible)
- 1DW/D
- Enterprise features including:
  - Power Loss Protection
  - 128 Namespaces
  - Full Data-Loss Protection
  - End-to-End data Path Protection
  - Variable Sector Sizes
  - NVMe-MI 1.1b
- MTBF rating of 2 million hours (projected)
- Secure Erase (SE)
- 5-year limited warranty<sup>6</sup>

# Applications/Environments

Cloud datacenters

- Scale-out or Software Defined Solutions
- Big Data
- NoSQL or Distributed databases
- AI/ML Deep Learning
- Data Archiving

*Strona firmowa produktu:*

<https://www.superstorage.pl/western-digital-ultrastar-dc-sn650-768tb-25-u3-nvme-g4-dwpc-15mm-ise-wus5ea176esp5e3-0ts2374-p-5711.html>