

ENTERPRISE DataCore

PCIe Gen5 Ultra High Capacity Enterprise Storage Solutions

Sequential read

up to 14 000 MB/s

Sequential write

up to 3 000 MB/s

Interface

PCIe 5.0 1x4 (Single port), 2x2 (Dual port)

Capacity

up to 61.44 TB

Form factor

U.2, E3.S, E3.L

DWPD

0.3



Product features

- NVMe 2.0
- AES-XTS 256-bit Encryption
- TCG Opal 2.0 Support
- ISE
- End-to-End Data Path Protection
- NVMe-MI (Management Interface)
- SMBus
- 128 Namespaces
- SECDED
- Power Loss Protection (PLP)
- Sanitize
- Data Integrity and Protection

Solutions - DC20F

Form factor U.2 ⁽¹⁾		
Capacity ⁽²⁾	30.72 TB	61.44 TB
Interface	PCIe 5.0 1x4, 2x2	PCIe 5.0 1x4, 2x2
NVMe	2.0	2.0
NAND Flash	3D QLC	3D QLC
Performance ^(3,4,5,6)		
Sequential read to (MB/s)	14 600	14 600
Sequential write to (MB/s)	3 000	3 000
4K random read to (IOPS)	3 000 000	3 000 000
4K random write to (IOPS)	34 000	34 000
Read latency (Typ.,µs)	110	110
Write latency (Typ.,µs)	12	12
Power consumption ⁽⁷⁾		
Active (W)	25	25
Idle (W)	5	5
Endurance/Reliability		
DWPD ⁽⁸⁾	0.3	0.3
UBER ⁽⁹⁾	< 1 sector per 10 ¹⁸ bits read	< 1 sector per 10 ¹⁸ bits read
MTBF (hours) ⁽¹⁰⁾	2 500 000	2 500 000
Limited warranty (years) ⁽¹¹⁾	5	5
Temperature		
Operating temp. (°C)	0 – 70	0 – 70
Non-operating temp. (°C)	-40 – 85	-40 – 85
Physical dimension		
Length (mm)	100.10	100.10
Width (mm)	69.85	69.85
Height (mm)	15.00	15.00

* A detailed explanation of symbols and markings is provided on the final page.



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Performance numbers may vary based on system.
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Solutions - DC20F

Form factor E3.S⁽¹⁾

Capacity ⁽²⁾	30.72 TB
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Interface	PCIe 5.0 1x4, 2x2
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NVMe	2.0
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NAND Flash	3D QLC
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Performance^(3,4,5,6)

Sequential read to (MB/s)	14 600
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Sequential write to (MB/s)	3 000
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4K random read to (IOPS)	3 000 000
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4K random write to (IOPS)	34 000
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Read latency (Typ.,µs)	110
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Write latency (Typ.,µs)	12
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Power consumption⁽⁷⁾

Active (W)	25
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Idle (W)	5
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Endurance/Reliability

DWPD ⁽⁸⁾	0.3
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UBER ⁽⁹⁾	< 1 sector per 10 ¹⁸ bits read
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MTBF (hours) ⁽¹⁰⁾	2 500 000
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Limited warranty (years) ⁽¹¹⁾	5
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Temperature

Operating temp. (°C)	0 – 70
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Non-operating temp. (°C)	-40 – 85
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Physical dimension

Length (mm)	112.75
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Width (mm)	76.00
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Height (mm)	7.50
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Find more information and resources at: goodram.com/en/categories/server-memory-en/

Solutions - DC20F

Form factor E3.S⁽¹⁾

Capacity ⁽²⁾	61.44 TB
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Interface	PCIe 5.0 1x4, 2x2
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NVMe	2.0
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NAND Flash	3D QLC
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Performance^(3,4,5)

Sequential read to (MB/s)	14 600
---------------------------	--------

Sequential write to (MB/s)	3 000
----------------------------	-------

4K random read to (IOPS)	3 000 000
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4K random write to (IOPS)	34 000
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Read latency (Typ.,µs)	110
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Write latency (Typ.,µs)	12
-------------------------	----

Power consumption⁽⁶⁾

Active (W)	25
------------	----

Idle (W)	5
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Endurance/Reliability

DWPD ⁽⁸⁾	0.3
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UBER ⁽⁹⁾	< 1 sector per 10 ¹⁸ bits read
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MTBF (hours) ⁽¹⁰⁾	2 500 000
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Limited warranty (years) ⁽¹¹⁾	5
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Temperature

Operating temp. (°C)	0 – 70
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Non-operating temp. (°C)	-40 – 85
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Physical dimension

Length (mm)	112.75
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Width (mm)	76.00
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Height (mm)	7.50
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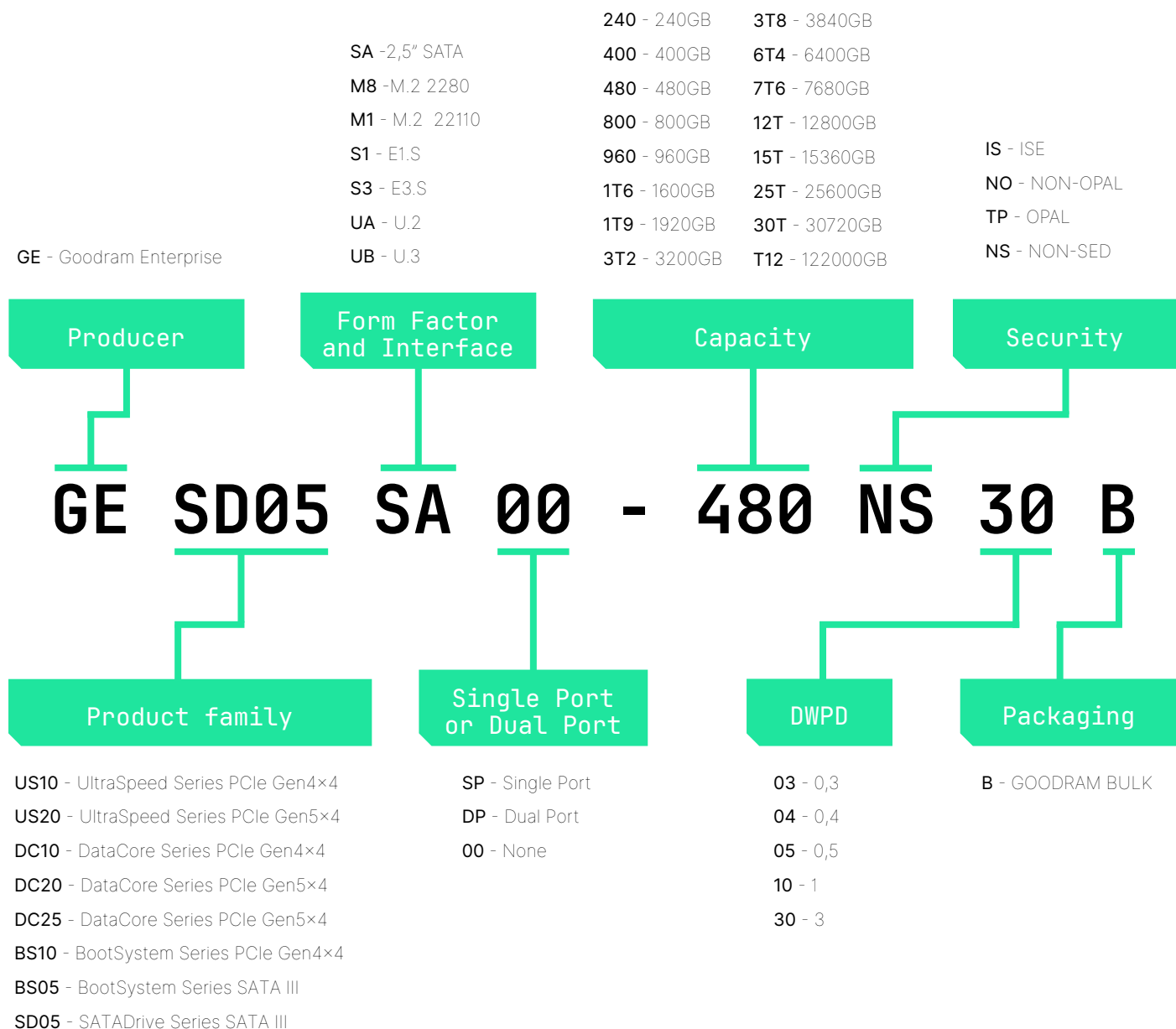
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Decoder P/N



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Legend

- (1) The product is still in the early development stage, all values provided are based on estimation.
- (2) 1 TB = 10^{12} bytes.
- (3) Sequential Performance is based on FIO on Linux, 128 KB, with QD=32, 1 worker, and test drive set as secondary.
- (4) Random Performance is based on FIO on Linux, 4 KB data size, QD=32, 16 workers.
- (5) Latency is measured with random workloads based on FIO on Linux, 4 KB data size, QD=1, 1 worker.
- (6) Sequential performance is based on FIO (Flexible I/O Tester - an open source tool used to measure the performance of input/output (I/O) operations for disk drives and storage systems under various test scenarios) on Linux, 128 K, with QD=32, 1 worker.
- (7) Power consumption (Maximum RMS) is measured during the sequential read/write and random read/write operations performed by iometer with the conditions described in (2)(3).
- (8) The results of DWPD are obtained in compliance with JESD219A Standards.
- (9) UBER (Uncorrectable Bit Error Rate) – a measure of data storage reliability, indicating the number of uncorrectable bit errors per amount of data read. This value shows how often errors may occur that cannot be corrected using internal ECC (Error Correction Code) mechanisms.
- (10) Please note that a lower MTBF should be expected for higher capacity drives, and we apply the lowest MTBF for all capacities.
- (11) We warrant that each Product manufactured and delivered by Wilk Elektronik SA will comply with the specifications for five (5) years from the date of delivery or until the total number of stored terabytes specified in the S.M.A.R.T. attribute is exceeded, whichever occurs first.



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