

Comparison table Industrial SSD program - SATA drives



	SATA drives			
Product Name / Part Number	OCPOS3XXXQ-A0	OM8POS3XXXQ-A0	OM4POS3XXXQ-A0	OMSP0S3XXXQ-00
Capacities ¹	128GB – 1024GB	128GB – 1024GB	128GB – 512GB	128GB – 512GB
Form Factor	2.5"	M.2 2280	M.2 2242	mSATA
Interface	SATA III (6Gbps)	SATA III (6Gbps)	SATA III (6Gbps)	SATA III (6Gbps)
NAND	3D TLC BICS5	3D TLC BICS5	3D TLC BICS5	3D TLC BICS5
Operating Temperature	0°C ~ 70°C	0°C ~ 70°C	0°C ~ 70°C	0°C ~ 70°C
Sequential Read / Write (MB/s) ²	128GB: 550/370 256GB: 550/480 512GB - 1024GB: 550/515	128GB: 550/370 256GB: 550/480 512GB - 1024GB: 550/510	128GB: 550/370 256GB: 550/480 512GB: 550/510	128GB: 550/370 256GB: 550/480 512GB: 550/510
4K Random (IOPS) Read / Write ²	128GB: 43500/82000 256GB: 70000/88500 512GB: 85000/91000 1024GB: 85000/92500	128GB: 43500/84000 256GB: 70600/89500 512GB: 87400/92000 1024GB: 85900/93000	128GB: 43500/84000 256GB: 70600/89500 512GB: 87400/92000	128GB: 43500/84000 256GB: 70600/89500 512GB: 87400/92000

Benefits of Industrial SSD Program:

- ☐ SSDs with low entry-point capacities and different form factors
- ☐ Controlled BOM and firmware
- ☐ 90 days PCN
- ☐ Dedicated engineering support
- ☐ 3-year limited warranty

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Comparison table Industrial SSD program - NVMe drives



	NVMe drives					
Product Name / Part Number	OM8PGP4XXXQ-A0	OM8PGP4XXXN-A0	OM8SEP4XXXQ-A0	OM8SEP4XXXN-A0	OM3PGP4XXXQ-A0	OM3PGP4XXXP-A0
Capacities ¹	128GB	2048GB	256GB - 1024GB	512GB - 1024GB	128GB - 512GB	1024GB
Form Factor	M.2 2280	M.2 2280	M.2 2280	M.2 2280	M.2 2230	M.2 2230
Interface	PCIe Gen4x4	PCIe Gen4x4	PCIe Gen4x4	PCIe Gen4x4	PCIe Gen4x4	PCIe Gen4x4
NAND	3D TLC BICS5	3D QLC Q4128A	3D TLC BICS5	3D QLC Q4128A	3D TLC BiCS5	3D TLC B47R
Operating Temperature	0°C ~ 70°C	0°C ~ 70°C	0°C ~ 70°C	0°C ~ 70°C	0°C ~ 70°C	0°C ~ 70°C
Sequential Read / Write (MB/s) ²	1800/900	4000/3600	256GB: 3300/1100 512GB: 3700/2200 1024GB: 3700/2680	512GB: 3180/1300 1024GB: 3550/2510	128GB: 1800/900 256GB: 3900/1800 512GB: 4700/3400	4,540/4,230
4K Random (IOPS) Read / Write ²	110,000/210,000	340,000/200,000	256GB: 109000/156000 512GB: 178000/156000 1024GB: 178000/156000	512GB: 104200/165000 1024GB: 187700/167000	128GB: 100,000/210,000 256GB: 230000/410000 512GB: 460000/690000	592,600/567,700

Benefits of Industrial SSD Program:

- ❑ SSDs with low entry-point capacities and different form factors
- ❑ Controlled BOM and firmware
- ❑ 90 days PCN
- ❑ Dedicated engineering support
- ❑ 3-year limited warranty

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Comparison table Industrial SSD program - i-Temp drives



	i-Temp drives	
Product Name / Part Number	OTCS1S3XXXQ-B00	OTM8S1S3XXXQ-B00
Capacities ¹	128GB – 1024GB	128GB – 1024GB
Form Factor	2.5"	M.2 2280
Interface	SATA III (6Gbps)	SATA III (6Gbps)
NAND	3D TLC BICS5	3D TLC BICS5
Operating Temperature	-40°C ~ +85°C	-40°C ~ +85°C
Sequential Read / Write (MB/s) ²	128GB: 480/440 256GB - 1024GB: 550/500	128GB: 480/440 256GB: 550/500 512GB : 550/500 1024GB: 550/500
4K Random (IOPS) Read / Write ²	128GB: 38000/72000 256GB: 70000/75000 512GB-1024GB: 90000/77000	128GB: 38000/72000 256GB: 70000/75000 512GB: 90000/77000 1024GB: 90,000/77,000

Benefits of Industrial i-Temp SSDs

- ❑ SSDs with low entry-point capacities and different form factors
- ❑ Controlled BOM and firmware
- ❑ 90 days PCN
- ❑ Dedicated engineering support
- ❑ 5-year limited warranty

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Information is correct at time of print (June 2024). AS910579

1. Some of the listed capacity on a flash storage device is used for formatting and other functions and thus is not available for data storage. As such, the actual available capacity for data storage is less than what is listed on the products. For more information, go to Kingston's Flash Guide at kingston.com/flashguide.

2. Speed may vary due to host and device configuration.

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