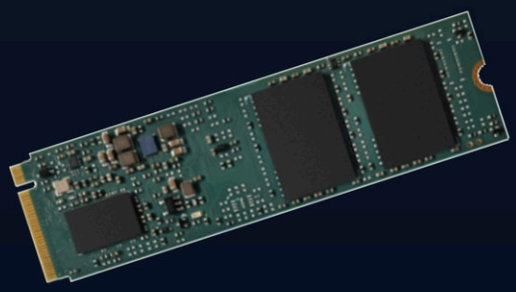
CAPLINK

SOLID-STATE DRIVES

DATA CENTER / INDUSTRIAL / PC OEM





Nine series. Three product lines.

PRODUCT EDITION / NOV 2026

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CAPLINK

PRODUCT LINEUP

SERIES OVERVIEW

01 DATA CENTER

D500 / D550 / D700 / D800

SATA / PCIe 4.0 / PCIe 5.0

2.5″ 7 mm / U.2 15 mm

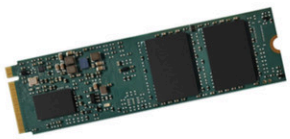


02 INDUSTRIAL

SI500 / SI600 / SI700

SATA / PCIe 3.0 / PCIe 4.0

2.5″ / mSATA / M.2



03 PC OEM

PC600 / PC700

PCIe 3.0 / PCIe 4.0

M.2 2280



Specifications and test conditions: see the accompanying SOURCES.md and product datasheets.

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DATA-CENTER CATALOG

SATA 6 Gb/s read-intensive and mixed-use SSDs

PRODUCT CATALOG

D500



2.5" 7 mm / SATA 6 Gb/s

Sequential: MB/s (128 KB) / Random: K IOPS (4 KB) / DWPD: 5-year endurance rating

Capacity	Seq. read	Seq. write	Rand. read	Rand. write	DWPD
480GB	530	500	95	26	1
960GB	530	500	95	35	1
1920GB	530	500	95	40	1
3840GB	530	500	95	50	1

FIO / QD32 / full LBA span; see product introduction and accompanying datasheet.

D550



2.5" 7 mm / SATA 6 Gb/s

Sequential: MB/s (128 KB) / Random: K IOPS (4 KB) / DWPD: 5-year endurance rating

Capacity	Seq. read	Seq. write	Rand. read	Rand. write	DWPD
240GB	536	388	95	48	3
480GB	536	504	96	49	3
960GB	536	504	96	53	3
1920GB	536	505	95	56	3
3840GB	536	504	94	56	3

FIO / QD32 / full LBA span; see product introduction and accompanying datasheet.

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DATA-CENTER CATALOG

NVMe / PCIe 4.0 and PCIe 5.0

PRODUCT CATALOG

D700



U.2(2.5″)15 mm / PCIe 4.0 ×4 / NVMe 2.0

CAPACITY AND PERFORMANCE

Capacity	DWPD	Seq. write GB/s	Steady-state random write (K IOPS)
1.6TB	3	2.7	200
3.2TB	3	4.8	400
6.4TB	3	5.8	500
1.92TB	1	2.7	110
3.84TB	1	4.8	200
7.68TB	1	5.8	280

Single-port PCIe 4.0 ×4; sequential 128 KB, random 4 KB. 6.4TB: 3DWPD/500K; 7.68TB: 1DWPD/280K.

Linux FIO / PTS 2.0; seq. 1 thread/QD512, random 8 threads/QD64 steady state; see D700 introduction.

D800



U.2(2.5″)15 mm / PCIe 5.0 ×4 / NVMe 2.0

Sequential: GB/s (128 KB) / Random: K IOPS (4 KB) / DWPD: 5-year endurance rating

Capacity	Seq. read	Seq. write	Rand. read	Rand. write	DWPD
3.84TB	14.6	4.9	2800	250	1
7.68TB	14.6	9.7	3600	500	1
15.36TB	14.3	9.3	3100	500	1

X86, PCIe 5.0 ×4; FIO 3.35 / RHEL 9.0, full LBA span. Other modes/platforms use separate ratings.

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D500

2.5″ 7 mm / SATA 6 Gb/s

Data-center SATA SSDs with consistency and serviceability

PRODUCT INTRODUCTION

DATA CENTER

D500

2.5″ 7 mm
SATA 6 Gb/s



530 / 500 MB/s

128 KB seq. read / write, all capacities

95K IOPS

4 KB random reads, all capacities

1 DWPD @5Y

5-year endurance rating

01 Consistent QoS

Capacity-specific QoS and I/O consistency figures help characterize response behavior under sustained operation.

02 Enhanced power-loss protection and recovery

Onboard hold-up capacitors support EPLP. On the next power-up after unexpected power loss, SPOR rebuilds mapping metadata.

03 Multi-stage thermal throttling

DTT adjusts write speed in temperature-based stages; thermal throttling applies to writes, not reads.

04 Enhanced firmware maintainability

DOWNLOAD MICROCODE supports firmware updates; SMART reports endurance usage and temperature.

Intel C621, FIO, QD32, full LBA span; 128 KB sequential, 4 KB random. Ratings vary with capacity, platform and workload.

See the accompanying documentation for specifications and test conditions.

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CAPLINK
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D550

2.5″ 7 mm / SATA 6 Gb/s

Data-center SATA SSDs with QoS and write endurance

PRODUCT INTRODUCTION

DATA CENTER

D550

2.5″ 7 mm
SATA 6 Gb/s



536 MB/s

128 KB seq. reads, all capacities

56K IOPS

4 KB random writes, 1920GB / 3840GB

3 DWPD @5Y

5-year endurance rating

01 Consistent QoS

Capacity-specific QoS and I/O consistency figures accompany an endurance rating of 3 DWPD over 5 years.

02 Enhanced power-loss protection and recovery

Tantalum-capacitor PLP protects acknowledged cached data. SPOR rebuilds mapping metadata on the next power-up after unexpected power loss.

03 Multi-stage thermal throttling

Write speed is adjusted in stages according to composite drive temperature; read speed is not throttled by this mechanism.

04 Enhanced firmware maintainability

DOWNLOAD MICROCODE supports firmware updates; SMART reports endurance usage, temperature and PLP status.

Intel C621, CentOS 7.9 / FIO 3.7, QD32, full LBA span, write cache enabled; 128 KB sequential, 4 KB random.

See the accompanying documentation for specifications and test conditions.

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CAPLINK
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D700

U.2 (2.5″) / PCIe 4.0 ×4 / NVMe 2.0

PCIe 4.0 NVMe SSDs for data centers

PRODUCT INTRODUCTION

DATA CENTER

D700

U.2 (2.5″)
PCIe 4.0 ×4
NVMe 2.0
Single-port performance



7.1 / 5.8 GB/s

Seq. read / write, 6.4TB & 7.68TB

1700K / 500K IOPS

Random read / steady-state random write, 6.4TB, 3DWPD only

1 / 3 DWPD

Capacity-specific endurance grades

01 High-performance reads and writes

The 6.4TB, 3DWPD model delivers 7.1/5.8 GB/s sequential reads/writes and 500K steady-state 4 KB random write IOPS.

02 End-to-end data protection

Host PI and end-to-end data protection help maintain data integrity.

03 Health monitoring and device management

SMART and NVMe-MI support drive health monitoring and management.

04 Dynamic thermal management

Media-temperature monitoring progressively adjusts performance at a threshold and restores performance as temperature falls.

Single-port PCIe 4.0 ×4; Linux FIO / PTS 2.0. Sequential: 128 KB, 1 thread/QD512; random: 4 KB, 8 threads/QD64 steady state. 0–70°C is controller temperature, not ambient.

See the accompanying documentation for specifications and test conditions.

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CAPLINK
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D800

U.2 15 mm / NVMe 2.0 / 3.84–15.36TB

PCIe 5.0 ×4 performance with enterprise management features

PRODUCT INTRODUCTION

DATA CENTER

D800

U.2 15 mm
NVMe 2.0
3.84–15.36TB



14.6 GB/s

Seq. reads, 3.84TB / 7.68TB

3600K IOPS

4 KB random reads, 7.68TB

1 DWPD

5-year endurance rating

01 High sequential throughput and random I/O performance

The 7.68TB model delivers 14.6/9.7 GB/s sequential reads/writes and 3600K 4 KB random read IOPS.

02 Power-loss and full data-path protection

PLP saves acknowledged data held in volatile cache on power loss. Full data-path protection helps maintain data integrity.

03 Online maintenance and diagnostics

Online firmware updates, telemetry logs and NVMe-MI support operational diagnostics and maintenance.

04 HCTM and thermal protection

HCTM supports host-configurable thermal thresholds. Temperature alerts and staged throttling help manage overheating risk.

Performance: X86, PCIe 5.0 ×4; 128 KB sequential, 4 KB random; FIO 3.35 / RHEL 9.0, full LBA span. Ratings vary by capacity.

See the accompanying documentation for specifications and test conditions.

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CAPLINK
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INDUSTRIAL CATALOG

Multiple form factors and capacities, with temperature options

PRODUCT CATALOG

SI500



SATA 6 Gb/s; four forms; performance excerpt: M.2 2280, 0–70°C only

Capacity	Seq. read	Seq. write	Rand. read	Rand. write
64G	340	350	25	75
128G	560	500	55	80
256G	560	515	90	75
512G	555	520	90	75
1T	560	520	95	75
2T	490	510	90	65

Series: 0–70°C / −25–85°C; M.2 2242 is 64G–1T only. Other forms/grades: see datasheet.

SI600



PCIe 3.0 ×4 / NVMe 1.4; M.2 2280; one rating table for both temperature grades

Capacity	Seq. read	Seq. write	Rand. read	Rand. write
128G	2355	1775	295	325
256G	3655	3080	540	275
512G	3565	3145	540	440
1T	3560	3090	530	460
2T	3655	3100	580	460

Operating 0–70°C / −25–85°C (SMART); both grades use the same per-capacity ratings.

SI700



PCIe 4.0 ×4; M.2 2280; standard 0–70°C / NVMe 1.4 ratings only

Capacity	Seq. read	Seq. write	Rand. read	Rand. write
128G	3430	1750	310	345
256G	6840	3425	610	575
512G	7030	6415	860	660
1T	7065	6475	865	670
2T	7435	6615	1100	835

Extended −25–85°C and industrial −40–85°C options; the table shows standard-grade ratings only.

Sequential MB/s; random K IOPS. Up-to ratings; CrystalDiskMark 6.0.2.

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CAPLINK
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SI500

2.5″ / mSATA / M.2 2280 / M.2 2242

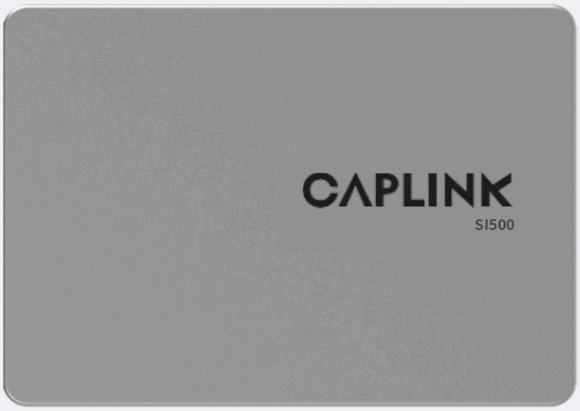
Versatile SATA formats and capacities, with standard- and extended-temperature options

PRODUCT INTRODUCTION

INDUSTRIAL SSDs

SI500

2.5″
mSATA
M.2 2280
M.2 2242



565 / 525 MB/s

Max. sequential read / write
M.2 2280, 512G, −25–85°C

95K / 90K IOPS

Max. random read / write
Read: 2280, 1T; write: mSATA, 256G
Both −25–85°C; separate configurations

64GB–2048GB

Capacity range
M.2 2242 up to 1T

01 A choice of form factors

2.5″ 7 mm, mSATA, M.2 2280 and 2242 formats support a wider range of integration needs.

02 Two temperature grades

Choose standard-temperature 0–70°C or extended-temperature −25–85°C grades.

03 A broad capacity range

The series spans 64GB–2048GB; M.2 2242 is available up to 1T.

04 Endurance management

Garbage collection, wear leveling and SET endurance technology; 3-year warranty.

Image: 2.5″. Maxima refer to the specified forms, capacities and grades, not one configuration. CrystalDiskMark 6.0.2; drive temperature reported by SMART.

See the accompanying documentation for specifications and test conditions.

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CAPLINK
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SI600

M.2 2280 / PCIe 3.0 ×4 / NVMe 1.4

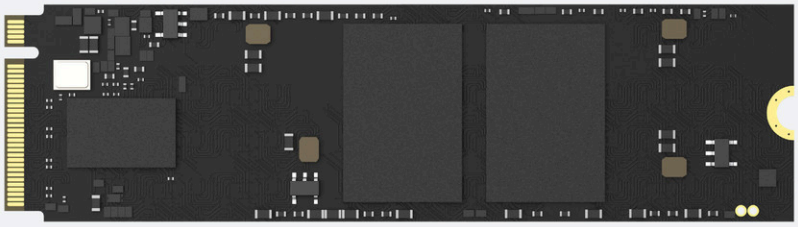
Industrial PCIe 3.0 SSDs in multiple form factors

PRODUCT INTRODUCTION

INDUSTRIAL SSDs

SI600

M.2 2280
PCIe 3.0 ×4
NVMe 1.4



3655 / 3145 MB/s

Max. sequential read / write
Read: 2T; write: 512G
M.2 2280, both temperature grades

580K / 460K IOPS

Max. random read / write
M.2 2280, 2T, both temperature grades

128G–2T

Capacity range
128G / 256G / 512G / 1T / 2T

01 Single- and double-sided options

Single-sided S2-M and double-sided D2-M options; M.2 2280 and M.2 2242 form factors.

02 Standard- and extended-temperature options

Choose standard-temperature 0–70°C or extended-temperature −25–85°C grades.

03 Status and power management

Supports TRIM/deallocation, SMART and PCIe interface power management.

04 A choice of capacities

Available in 128G, 256G, 512G, 1T and 2T grades.

Image and ratings: M.2 2280 only, not M.2 2242. Standard 0–70°C and extended −25–85°C grades share one rating table; drive temperature reported by SMART. CrystalDiskMark 6.0.2.

See the accompanying documentation for specifications and test conditions.

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CAPLINK
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SI700

M.2 2280 / PCIe 4.0 ×4 / 128G–2T

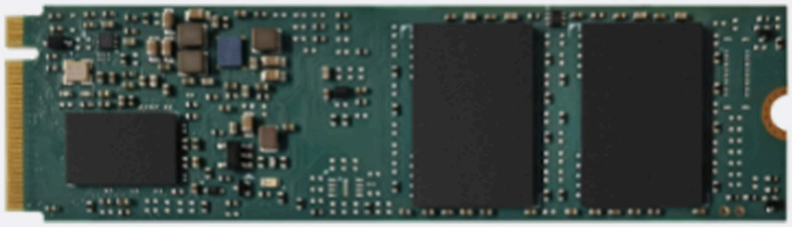
Industrial PCIe 4.0 SSDs for AI applications

PRODUCT INTRODUCTION

INDUSTRIAL SSDs

SI700

M.2 2280
PCIe 4.0 ×4
128G–2T



7435 / 6615 MB/s

Max. sequential read / write
M.2 2280, standard 0–70°C, 2T

1100K / 835K IOPS

Max. random read / write
M.2 2280, standard 0–70°C, 2T

128G–2T

Capacity range
128G / 256G / 512G / 1T / 2T

01 Performance for mainstream AI applications

Standard-temperature 2T: up to 7435/6615 MB/s sequential reads/writes and 1100K/835K random read/write IOPS.

02 Multiple temperature grades

Standard-temperature 0–70°C, extended-temperature −25–85°C and industrial-temperature −40–85°C options.

03 A broad capacity choice

Available in 128G, 256G, 512G, 1T and 2T grades.

04 Built for reliability

Uses industrial-grade components throughout for stable operation in a range of embodied AI applications.

Ratings: 0–70°C, M.2 2280, 2T only, not other grades; drive temperature reported by SMART. CrystalDiskMark 6.0.2. AI positioning does not guarantee performance for a specific AI workload.

See the accompanying documentation for specifications and test conditions.

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CAPLINK
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PC / OEM CATALOG

PCIe 3.0 / 4.0 / M.2 2280

PRODUCT CATALOG

PC600



M.2 2280 / PCIe 3.0 ×4 / NVMe 1.4

Sequential MB/s / random K IOPS; CrystalDiskMark 6.0.2, up-to ratings

Capacity	Seq. read	Seq. write	Rand. read	Rand. write
128G	1070	905	146	190
256G	2095	1760	280	315
512G	3560	2965	516	400
1T	3480	3050	540	415

Operating 0–70°C (SMART); each capacity has its own ratings, not combined maxima.

PC700



M.2 2280 / PCIe 4.0 ×4 / NVMe 1.4

Sequential MB/s / random K IOPS; CrystalDiskMark 6.0.2, up-to ratings

Capacity	Seq. read	Seq. write	Rand. read	Rand. write
256G	3355	2040	77	420
512G	6715	3935	154	780
1T	7010	6290	300	930
2T	7050	6400	577	720

Operating 0–70°C (SMART); each capacity has its own ratings, not combined maxima.

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CAPLINK
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PC600

M.2 2280 / PCIe 3.0 ×4 / NVMe 1.4

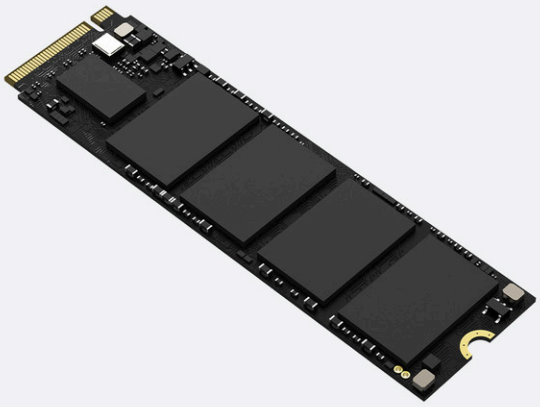
A value-focused SSD choice

PRODUCT INTRODUCTION

PC / OEM SSDs

PC600

M.2 2280
PCIe 3.0 ×4
NVMe 1.4



3560 / 3050 MB/s

Max. sequential read / write
Read: 512G; write: 1T
Separate capacities

540K / 415K IOPS

Max. random read / write
1T model

128G–1T

Capacity range
128G / 256G / 512G / 1T

01 Sequential and random I/O performance

Up to 3560 MB/s sequential reads (512G), 3050 MB/s sequential writes (1T) and 540K/415K random read/write IOPS (1T).

02 Platform compatibility

Compatible with Intel and AMD platforms and Windows/Ubuntu; compatibility depends on the target platform configuration.

03 Single-sided design option

A single-sided board option keeps the reverse side free of components.

04 Manufacturing consistency

Integrated production equipment helps maintain product consistency in volume production.

CrystalDiskMark 6.0.2; drive temperature reported by SMART: 0–70°C. Maxima refer to the stated capacities, not one combined configuration; single-sided availability depends on configuration.

See the accompanying documentation for specifications and test conditions.

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CAPLINK
JIELONG STORAGE

PC700

M.2 2280 / PCIe 4.0 ×4 / NVMe 1.4

High performance. Strong value.

PRODUCT INTRODUCTION

PC / OEM SSDs

PC700

M.2 2280
PCIe 4.0 ×4
NVMe 1.4



7050 / 6400 MB/s

Max. sequential read / write
2T model

577K / 930K IOPS

Max. random read / write
Read: 2T; write: 1T
Separate capacities

256G–2T

Capacity range
256G / 512G / 1T / 2T

01 Sequential and random I/O performance

2T sequential reads/writes reach 7050/6400 MB/s; random reads reach 577K IOPS (2T), and writes 930K IOPS (1T).

02 Platform compatibility

Compatible with Intel and AMD platforms and Windows/Ubuntu; compatibility depends on the target platform configuration.

03 Single-sided design option

A single-sided board option keeps the reverse side free of components.

04 Manufacturing consistency

Integrated production equipment helps maintain product consistency in volume production.

CrystalDiskMark 6.0.2; drive temperature reported by SMART: 0–70°C. Maxima refer to the stated capacities, not one combined configuration; single-sided availability depends on configuration.

See the accompanying documentation for specifications and test conditions.

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