Lexar

ENTERPRISE

Industrial SATA SSD Families
Product Brief

Capacities

8GB, 16GB, 32GB, 64GB, 128GB, 256GB, 512GB, 1TB, 2TB, 4TB

Advanced Features

- Wide temperature range: -40°C to +85°C
- FBA data acceleration technology
- LDPC ECC algorithm
- S.M.A.R.T. monitoring technology
- Overall wear-leveling management
- Trim/Garbage collection technology
- Emergency power failure protection
- Supported formats: mSATA, 2.5 inch, M.2

Applications

Rail transportation

Communication base stations

Electric equipment

Medical instruments

Industrial computers

Enduring Reliability

Available in capacities ranging from 8GB to 4TB, the Lexar Enterprise Industrial SATA SSDs offer powerhouse performance and lasting reliability. Powered by an advanced firmware algorithm, Lexar Enterprise Industrial SATA SSDs support industrial temperatures (-40°C to +85°C) with thermal throttling that keeps performance optimized to prevent damage from overheating, providing reliable storage that's built to last.

Key Benefits

Power Failure Protection

Power loss protection (PLP) and proprietary firmware is available on certain models to help prevent data loss caused by sudden power surges and failures, while ensuring data validity.

pSLC Technology

An advanced flash memory management algorithm maximizes reliability, stability, and overall lifespan of the Lexar Enterprise Industrial SSD. Feature available on certain models.

Temperature Throttling

Lexar Enterprise industrial SSD performance is proactively controlled to ensure an optimal operating temperature and prevent damage from overheating.

Supported Formats

Lexar Enterprise Industrial SATA SSDs supports the following formats: mSATA, 2.5 inch, M.2 2280, M.2 2242

Specifications

Product Series	Series	Capacity	Nand Flash	DRAM	Seq. R/W (max)*	Operating Temperature[1]	Storage Temperature	Size	Interface	Power-loss Protection	Temp. Control
Industrial SATA SSD	A88MH	64GB / 128GB	MLC	DRAM-less	128GB:540/ 450 MB/s	-40°C to 85°C	-55°C to +95°C	2.5"	SATA3	Y	Y
Industrial SATA SSD	A88MS / A88MS-S	16GB / 128GB	pSLC/ MLC	DRAM-less	128GB:540/ 450 MB/s	-40°C to 85°C	-55°C to +95°C	mSATA	SATA3	Y	Y
Industrial SATA SSD	A88M4 / A88M4-S	8GB / 128GB	pSLC/ MLC	DRAM-less	128GB:540/ 450 MB/s	-40°C to 85°C	-55°C to +95°C	M.2 2242	SATA3	N	Y
Industrial SATA SSD	A88M8	64GB / 128GB	MLC	DRAM-less	128GB:540/ 450 MB/s	-40°C to 85°C	-55°C to +95°C	M.2 2280	SATA3	N	Y
Industrial SATA SSD	A66MH	64GB/128GB/ 256GB/1TB	3D TLC NAND	DRAM-less	1TB:560/ 510MB/s	-40°C to 85°C	-55°C to +95°C	2.5"	SATA3	Y	Y
Industrial SATA SSD	A66M8	64GB/128GB/ 256GB/1TB	3D TLC NAND	DRAM-less	1TB:560/ 510MB/s	-40°C to 85°C	-55°C to +95°C	M.2 2280	SATA3	Y	Y

[*] Test conditions: Intel Z170 chipset, Intel core i5 6600k, 4GB DDR4, at 25°C
[1] Ambient temperature
[2] Optional features

*Data based on internal testing. Actual performance may vary due to equipment differences.