

SSD

Innodisk SSDs bring a whole new level of high performance to memory storage. Our wide selection of SSDs are designed for different applications, including industrial/embedded, enterprise server, aviation, defense, and other semi-industrial applications, such as thin clients, POS, and kiosk. Our SSDs come in iSLC, SLC and MLC types, and support PATA/IDE 44 pin, SATA II (3.0Gb/s), and SATA III (6.0Gb/s).



Model Name	2.5" SATA SSD 3IE-S	2.5" SATA SSD 3MG-P	2.5" SATA SSD 3ME-S	2.5" SATA SSD 2IE
Key Features	1. Cost-effective industrial flash with iSLC 2. Ultra low power consumption	1. EverGreen L ² architecture 2. High IOPS 3. Ultra low power consumption	1. Low cost solution 2. Ultra low power consumption	1. Cost-effective industrial flash with iSLC
Interface	SATA III 6.0Gb/s	SATA III 6.0Gb/s	SATA III 6.0Gb/s	SATA II 3.0Gb/s
Flash Type	iSLC	MLC	MLC	iSLC
Capacity	32GB-128GB	16GB-256GB	16GB-64GB	32GB-256GB
Max. Channels	4	4	4	8
Sequential R/W (MB/sec, max.)	470/300	480/180	470/100	230/230
Max. Power consumption	2.2W (5Vx450 mA)	2.2W (5Vx450 mA)	2.2W (5Vx450 mA)	2.1W (5Vx428 mA)
Thermal Sensor	Y	Y	Y	Optional
External DRAM Buffer	N	Y	N	N
iCell	N	Optional	N	N
TRIM	N	Y	N	N
ATA Security	Y	Y	Y	Y
S.M.A.R.T.	Y	Y	Y	Y
Dimension (WxLxH/mm)	69.8 X 100.1 X 7.0	69.8 X 100.1 X 7.0	69.8 X 100.1 X 7.0	69.8 X 100.1 X 9.3
Environment	Vibration: 20G@7~2000Hz Shock: 1500G@0.5ms Storage Temperature: -55°C ~ +95°C MTBF: >3 million hours			
Standard OP(0°C~+70°C)	DHS25-XXXD061C***	DGS25-XXXD675C***	DES25-XXXD065C***	DHS25-XXXJ201C***
Notes	xxx = density (02GB=02G, 04GB=04G, 08GB=08G, 16GB=16G, 32GB=32G, 64GB=64G, 128GB=A28, 256GB=B56, 512GB=C12) ***= flash configuration (internal control code)			



Model Name	InnoRobust II 2.5" SATA SSD	InnoRobust II 1.8" SATA SSD	FiD 2.5" SATA 25000	FiD 1.8" SATA 25000
Key Features	1. Compliant with MIL-STD-810-F/G 2. Data Security (QEraser/Destroy/SEraser/Write Protect) 3. iCell supported, 100% data protection	1. Compliant with MIL-STD-810-F/G 2. SW Data Security (QEraser/Destroy/SEraser/Write Protect)	1. iCell support, 100% data protection 2. High performance and IOPS	1. Standard Micro SATA 7+9 pin 2. High performance and IOPS
Interface	SATA II 3.0Gb/s	SATA II 3.0Gb/s	SATA II 3.0Gb/s	SATA II 3.0Gb/s
Flash Type	SLC	SLC	SLC	SLC
Capacity	8GB-256GB	8GB-128GB	8GB-256GB	8GB-128GB
Max. Channels	8	8	8	8
Sequential R/W (MB/sec, max.)	170/140	170/140	250/230	240/200
Max. Power consumption	3.75W(5V x 750mA)	2.5W(5V x 500mA)	3.5W (5V X 700 mA)	2.5W (5V X 500 mA)
Thermal Sensor	Optional	Optional	Optional	Y
External DRAM Buffer	Y	Y	Y	Y
iCell	Y	N	Y	N
TRIM	Y	Y	Y	Y
ATA Security	Y	Y	Y	Y
S.M.A.R.T.	Y	Y	Y	Y
Dimension (WxLxH/mm)	69.8 X 100.1 X 9.3	54.0x78.5x5.0	69.8 X 100.1 X 9.3	54.0x78.5x5.0
Environment	Vibration: 20G@7~2000Hz Shock: 1500G@0.5ms Storage Temperature: -55°C ~ +95°C MTBF: >3 million hours			
Standard OP(0°C~+70°C)	D2SN-XXXJ21AC*** D2SN-XXXJ21AK***	D1SN-XXXJ21AC*** D1SN-XXXJ21AK***	D2SN-XXXJ20AC***	D1SN-XXXJ20AC***
Wide temp. OP (-40°C~+85°C)	D2SN-XXXJ21AW*** D2SN-XXXJ21AT***	D1SN-XXXJ21AW*** D1SN-XXXJ21AT***	D2SN-XXXJ20AW***	D1SN-XXXJ20AW***
Notes	K/T: with coating	K/T: with coating	K/T: with coating	
Notes	xxx = density (02GB=02G, 04GB=04G, 08GB=08G, 16GB=16G, 32GB=32G, 64GB=64G, 128GB=A28, 256GB=B56, 512GB=C12) ***= flash configuration (internal control code)			



Model Name	FiD 2.5" SATA 10000 Plus	FiD 1.8" SATA D150 SSD	InnoRobust II 2.5" SATA SSD	InnoRobust II 1.8" SATA SSD
Key Features	1. Mainstream SLC SSD 2. Cost-effective in high speed	1. Economy SLC SSD 2. 1.8" housing, 50% space saving	1. Compliant with MIL-STD-810-F/G 2. Data Security (QEraser/Destroy/SEraser/Write Protect) 3. iCell supported, 100% data protection	1. Compliant with MIL-STD-810-F/G 2. SW Data Security (QEraser/Destroy/SEraser/Write Protect)
Interface	SATA II 3.0Gb/s	SATA II 3.0Gb/s	SATA II 3.0Gb/s	SATA II 3.0Gb/s
Flash Type	SLC	SLC	MLC	MLC
Capacity	8GB-128GB	2GB-64GB	32GB-512GB	32GB-256GB
Max. Channels	8	4	8	8
Sequential R/W (MB/sec, max.)	250/230	130/120	220/120	200/120
Max. Power consumption	2.8W (5V X 560 mA)	1W (5V X200 mA)	3.75W(5V x 750mA)	2.5W(5V x 500mA)
Thermal Sensor	Optional	Optional	Y	Y
External DRAM Buffer	N	N	Y	Y
iCell	N	N	Y	N
TRIM	N	N	Y	Y
ATA Security	Y	Y	Y	Y
S.M.A.R.T.	Y	Y	Y	Y
Dimension (WxLxH/mm)	69.8 X 100.1 X 9.3	69.8X 50.0 X 9.3	69.8x100.1x9.3	54.0x78.5x5.0
Environment	Vibration: 20G@7~2000Hz Shock: 1500G@0.5ms Storage Temperature: -55°C ~ +95°C MTBF: >3 million hours			
Standard OP(0°C~+70°C)	D2ST2-XXXJ20AC***	D1ST2-XXXJ30AC***	D2SN-XXXJ21AC*** D2SN-XXXJ21AK***	D1SN-XXXJ21AC*** D1SN-XXXJ21AK***
Wide temp. OP (-40°C~+85°C)	D2ST2-XXXJ20AW***	D1ST2-XXXJ30AW***	D2SN-XXXJ21AW*** D2SN-XXXJ21AT***	D1SN-XXXJ21AW*** D1SN-XXXJ21AT***
Notes			K/T: with coating	K/T: with coating
Notes	xxx = density (02GB=02G, 04GB=04G, 08GB=08G, 16GB=16G, 32GB=32G, 64GB=64G, 128GB=A28, 256GB=B56,512GB=C12) ***= flash configuration (internal control code)			

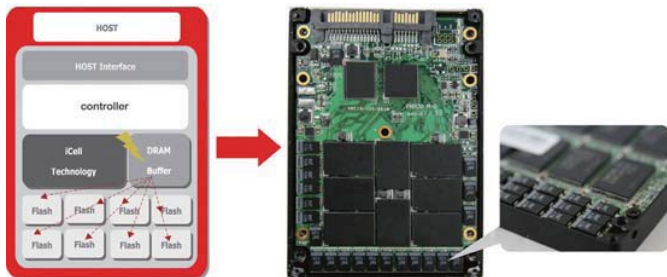


Model Name	1.8" SATA SSD 2ME	EverGreen Plus 2.5" SATA SSD	EverGreen 2.5" SATA SSD	InnoLite II 2.5" SATA SSD
Key Features	1. Standard Micro SATA 7+9 pin 2. Budget friendly	1. iCell Support, 100% data protection 2. L ² Architecture, 20 times longer lifespan	1. High speed R/W and High IOPS 2. L ² Architecture, 10 times longer lifespan	1. Mainstream MLC SSD 2. Budget friendly
Interface	SATA II 3.0Gb/s	SATA II 3.0Gb/s	SATA II 3.0Gb/s	SATA II 3.0Gb/s
Flash Type	MLC	MLC	MLC	MLC
Capacity	8GB-256GB	8GB-512GB	8GB-512GB	8GB-512GB
Max. Channels	8	8	8	8
Sequential R/W (MB/sec, max.)	190/130	220/150	220/150	240/220
Max. Power consumption	2.5W (5V X 500 mA)	3.5W (5V X 700 mA)	3.5W (5V X 700 mA)	3.5W (5V X 700 mA)
Thermal Sensor	Y	Optional	Optional	Optional
External DRAM Buffer	Y	Y	Y	N
iCell	N	Y	N	N
TRIM	Y	Y	Y	N
ATA Security	Y	Y	Y	Y
S.M.A.R.T.	Y	Y	Y	Y
Dimension (WxLxH/mm)	54.0x78.5x5.0	69.8 X 100.1 X 9.3	69.8 X 100.1 X 9.3	69.8 X 100.1 X 9.3
Environment	Vibration: 20G@7~2000Hz Shock: 1500G@0.5ms Storage Temperature: -55°C ~ +95°C MTBF: >3 million hours			
Standard OP(0°C~+70°C)	DLS18-XXXJ20AC***	D2SL-XXXJ20AC***	D2SN-XXXJ20AC***	D2ST2-XXXJ20AC***
Wide temp. OP (-40°C~+85°C)		D2SL-XXXJ20AW***	D2SN-XXXJ20AW***	D2ST2-XXXJ20AW***
Notes				
Notes	xxx = density (02GB=02G, 04GB=04G, 08GB=08G, 16GB=16G, 32GB=32G, 64GB=64G, 128GB=A28, 256GB=B56,512GB=C12) ***= flash configuration (internal control code)			



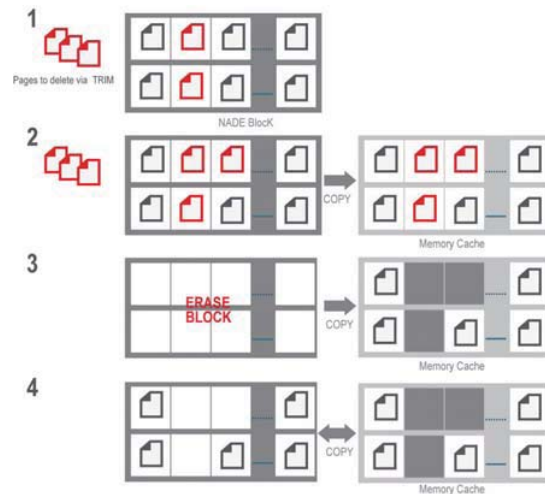
Model Name	InnoLite II 1.8" SATA SSD	2.5" SATA SSD 1SR	2.5" SATA SSD 1MR
Key Features	1. Economy MLC SSD 2. 1.8" housing, 50% space saving	1. Supported hardware encryption AES-256 2. Compliant with FIPS-140-2 Level 3 3. Compliant with MIL-STD-810-F/G 4. SW Data Security (QEraser/Destroy/SEraser/Write Protect)	1. Supported hardware encryption AES-256 2. Compliant with FIPS-140-2 Level 3 3. Compliant with MIL-STD-810-F/G 4. SW Data Security (QEraser/Destroy/SEraser/Write Protect)
Interface	SATA II 3.0Gb/s	SATA I 1.5Gb/s	SATA I 1.5Gb/s
Flash Type	MLC	SLC	MLC
Capacity	8GB-128GB	8GB- 256GB	32GB- 512GB
Max. Channels	4	8	8
Sequential R/W (MB/sec, max.)	120/70	120/70	120/70
Max. Power consumption	2.5W (5V X 500 mA)	4W(5V x 800mA)	4W(5V x800mA)
Thermal Sensor	Optional	Optional	Optional
External DRAM Buffer	N	Y	Y
iCell	N	Optional	Optional
TRIM	N	Y	Y
ATA Security	Y	Y	Y
S.M.A.R.T.	Y	Y	Y
Dimension (WxLxH/mm)	69.8X 50.0 X 9.3	69.8 X 100.1 X 9.3	69.8 X 100.1 X 9.3
Environment	Vibration: 20G@7~2000Hz Shock: 1500G@0.5ms Storage Temperature: -55°C ~ +95°C MTBF: >3 million hours		
Standard OP(0°C~+70°C)	D1ST2-XXXJ30AC***	DRS25-XXXJ21AC*** DRS25-XXXJ21AK***	DRS25-XXXJ21AC*** DRS25-XXXJ21AK***
Wide temp. OP (-40°C~+85°C)	D1ST2-XXXJ30AW***	DRS25-XXXJ21AW*** DRS25-XXXJ21AT***	DRS25-XXXJ21AW*** DRS25-XXXJ21AT***
Notes	K/T: with coating		
Notes	xxx = density (02GB=02G, 04GB=04G, 08GB=08G, 16GB=16G, 32GB=32G, 64GB=64G, 128GB=A28, 256GB=B56, 512GB=C12) ***= flash configuration (internal control code)		

What is icell?



Innodisk R&D team has developed iCell Technology into several SSD drives. iCell Technology ensures reliable and accurate data transfers even if an abnormal power failure occurs, no data will be lost.

What is TRIM?



SSDs are made up of millions of NAND flash cells. They can be written into groups called pages (generally 4KB in size) but can only be erased in larger groups called blocks (generally 128 pages or 512KB). The addresses of the deleted files, or HDD formats are sent along with the TRIM command to the SSD's controller so the drive can function optimally. TRIM commands clean up garbage data on the SSD that can slow performance down. The TRIM command is generally sent from the OS when the system is idle and this cleans up the blocks with data that need to be erased so it can perform like a brand new drive.