2.5” SSD WITH DRAM

FEATURES

- SMART feature set and 48-bit Address feature set
- Ultra rugged and reliable
- High-speed performance
- Proprietary wear levelling algorithms
- TRIM feature, improving write speed and increasing lifespan
- NAND extend ECC, higher data integrity through error correction
- 1G ~ 8G bits Internal Cache

INTRODUCTION

IONN is a South African Brand focussing on PC peripherals and other electrical and electronic products. Our SSDs are based on the same main components (controller, flash chip and DRAM where applicable) as used by many of the other main SSD suppliers. We are sourcing these SSDs directly from major production facilities in the East. These same facilities produce SSDs for many of the other 2nd and 3rd tier SSD suppliers in the world.

The SSD25-3DT range of SSDs from IONN are based on the SM2258 controller from Silicon Motion. Silicon Motion controllers are used by a wide variety of popular SSD suppliers. The SM2258 provides a single core 4 flash channel with DRAM design typically paired with 3D TLC type NAND flash chips from Micron.

These SSDs are fitted with a 16-bit DRAM chip allowing it to store the critical flash translation layer on the much faster and more durable DRAM. This results in better performance and longer endurance. For performance the sequential read and write speeds (large chunks of data) are similar to that of the DRAM less drives but the IOPS (smaller amounts of data) speeds are much better. These drives are aimed at most applications including high end desktop computer use which can include a high number of continuous reads and writes.

APPLICATIONS

Casino Gaming, Embedded / Industrial Systems, Enterprise Computing, Notebook, Medical Industry, Military and Aerospace.

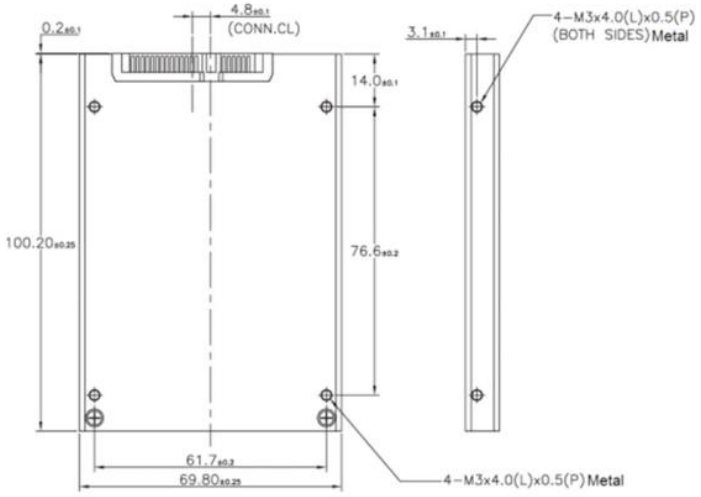
SPECIFICATIONS

Model	SSD25-3DT-XXGB			
Capacity	128GB	256GB	512GB	1024GB
Max. Read Speed (MB/S)	550	550	550	550
Max. Write Speed (MB/S)	500	510	510	510
Max. Random 4K Read IOPS	400	400	400	400
Max. Random 4K Write IOPS	350	350	350	350
Controller	SM2258H			
Form Factor	2.5”			
Interface	SATA III			
Dimension	54 x 55 x 5.7 mm			
MTBF	1,000,000 Hours			
Endurance (TBW)	50TB	100TB	200TB	400TB
Operation Temperature	0°C to +70°C			
Warranty Period	3 Years			

*All product specifications and product images are subject to change without notice.

ORDERING INFORMATION

Product Family	Capacity	Flash	Form Factor	Part Number
2.5” SATA WITH DRAM	128GB	TLC	2.5”	SSD25-3DT-128G
	256GB			SSD25-3DT-256G
	512GB			SSD25-3DT-512G
	1TB			SSD25-3DT-1TB



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