

leading through innovation

Imation Solid State Drive

PRO 7000 POWERED BY MTRON



The Imation Solid State Drive PRO 7000 powered by Mtron uses industry-leading solid state storage and controller technology to provide an ideal solution for enterprise, corporate and IT infrastructure applications with extreme performance needs. An Imation Solid State Drive (SSD) emulates a hard disk drive (HDD), but has no motors or moving parts, providing faster and more reliable data storage than traditional HDDs and with reduced heat and noise generation.

Featuring Mtron's ultra high speed internal data bus, the PRO 7000 delivers extremely high sustained read and write speeds, impressive input and output operations per second (IOPS) performance and virtually no seek time. Backed by Imation's more than 50 years of data storage experience, the PRO 7000 is ideal for custom or embedded systems and applications with extreme performance requirements such as high-performance storage arrays, database servers, Web servers and other network appliances.

The PRO 7000 leverages Mtron's controller technology leadership to deliver improved efficiency by accelerating drive-intensive applications, reducing overall power consumption and enhancing lifetime reliability. Supported by Imation's proven storage and technology service expertise, the PRO 7000 is easy to upgrade, easy to install and easy to use.

Features & Benefits

- **Superior Performance** – Improved read/write performance and substantially faster IOPS enables optimum drive performance and high reliability.
- **Enhanced Lifetime Reliability** – Imation SSDs deliver superior performance in a lightweight, power-efficient design. With mean time between failures (MTBF) of one million hours the PRO 7000 provides outstanding product reliability. Advanced wear-leveling technology with a 7-bit error correction code (ECC) works to extend lifetime performance to ensure data integrity.
- **Environmental Endurance** – Designed for continued use in harsh environments, the rugged solid state design is highly resistant to shock and temperature extremes. Extremely low power consumption helps to reduce energy usage and lower overall operating costs.

Performance Highlights

Average Access Time
0.1 msec

Sustained Throughput (Max)
Read: 120 MB/s*
Write: 90 MB/s*
*ATTO 2.41

Input Output Per Second (IOPS)
Sequential Read: 81,000**
Sequential Write: 45,000**
Random Read: 18,000**
Random Write: 130**
**IOMeter 2006.07.27

Power Consumption
Idle: 0.5 watts
Active: 2.7 watts

Endurance
Write Endurance: Intelligent algorithm ensures advanced wear leveling; even use of entire flash region
Read Endurance: Unlimited
Wear-level Algorithm: Dynamic and static wear-leveling
Mean Time Between Failures (MTBF): 1,000,000 hours
Error Correction code (ECC): 7-bit
Data Retention: 10 years at 25°C (77°F)



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SPECIFICATIONS

Interface	SATA 1.0a Standard
Transmission Modes	PIO mode (0-4), DMA mode (0-2), Ultra DMA mode (0-6)
Capacity	2.5" 16GB, 32GB
	3.5" 16GB, 32GB, 64GB
Input Voltage	5VCC+/-5%
Operating Temperature	0-70°C (32-158°F)
Case	Aluminum

Product Description

PRIMARY					MASTER CARTON			
UPC	Description	Part Number	Size (LxWxH)	Weight	UPC	Size (LxWxH)	Weight	Units
0-51122-27042-0	Imation SSD PRO 2.5 SATA 16GB	66000088196	10.24"x7.36"x2.09"	0.6lbs	50051122270425	10.813"x 10.563"x 8.0"	3.56lbs	5
0-51122-27050-5	Imation SSD PRO 2.5 SATA 32GB	66000088261	10.24"x7.36"x2.09"	0.6lbs	50051122270500	10.813"x 10.563"x 8.0"	3.56lbs	5
0-51122-27043-7	Imation SSD PRO 3.5 SATA 16GB	66000088204	10.24"x7.36"x2.09"	0.85lbs	50051122270432	10.813"x 10.563"x 8.0"	4.8lbs	5
0-51122-27052-9	Imation SSD PRO 3.5 SATA 32GB	66000088287	10.24"x7.36"x2.09"	0.85lbs	50051122270524	10.813"x 10.563"x 8.0"	4.8lbs	5
0-51122-27053-6	Imation SSD PRO 3.5 SATA 64GB	66000088295	10.24"x7.36"x2.09"	0.85lbs	50051122270531	10.813"x 10.563"x 8.0"	4.8lbs	5

To learn more about the Imation SSD powered by Mtron and other Imation removable data storage products, visit www.imation.com/SSD.