PRODUCT BRIEF Intel[®] Solid State Drive Pro 2500 Series

Best for Business

Enterprise-Ready Security and Manageability

Intel[®] Solid State Drive Professional 2500 Series delivers power-efficient performance with enterprise-ready security and remote manageability.

Best for Business

In today's demanding business environment, there is a growing need for reliable, high-speed storage partnered with manageable, robust security features. The Intel® SSD Pro 2500 Series is designed to meet business needs by enabling blazing fast performance and simultaneously upgrading a system's security and manageability profile. The Intel SSD Pro 2500 Series is available in capacities ranging from 120GB to 480GB in thin 2.5-inch and ultra-sleek M.2 form factors.

Advanced Security and Manageability Features

Unlike software-based encryption solutions which slow down a client drive's performance, the Intel SSD Pro 2500 Series employs a hardwarebased 256-bit AES encryption engine which seamlessly and consistently encrypts and decrypts data without sacrificing performance (as compared to software encryption). To enable policy-based control of the encryption, the Intel SSD Pro 2500 Series supports TCG's Opal* version 2.0 features and is Microsoft* eDrive¹ capable. The Intel SSD Pro 2500 is the right solution to deploy in the most demanding business environments. Intel collaborates with the security industry's leading software providers to deliver more stable and reliable security management solutions.

In an environment with Intel® vPro™ Technology, with Intel® Setup & Configuration Software with SSD Toolbox (Intel® SCS with SSD Toolbox) and leading security software, the Intel SSD Pro 2500 Series drives can be managed remotely, allowing IT to monitor and report drive health as well as track assets and remedy faults.

Power Efficient Performance

The Intel SSD Pro 2500 Series is designed to be the perfect blend of performance and power. The Intel Pro 2500 Series helps accelerate platform performance with throughput speeds up to 540 megabytes per second (MB/s) and random input/output operations per second (IOPs) up to 80K. In addition to strong performance, the Intel SSD Pro 2500 Series offers five low-power modes for a long battery life and an enhanced mobile experience. These lower power states can reduce idle power consumption by more than 90% when compared to a typical mobile hard disk drive.² When the Intel SSD Pro 2500 Series is coupled with the next generation Intel[®] Core[™] vPro[™] Platform, power consumption is reduced by an order of magnitude from milliwatts to microwatts.

Lower Total Cost of Ownership

Intel® SSDs are known industry wide for their quality and reliability. The Intel SSD Pro 2500 Series is no exception.



(intel)

SSD

inside





The Intel SSD Pro 2500 Series is engineered to reduce employee downtime as a result of storage-related failures.³ The Intel SSD Pro 2500 Series is designed to meet an Annualized Failure Rate (AFR) of well below 1%, resulting in a significant reduction in Total Cost of Ownership (TCO). For further peace of mind, the Intel SSD Pro 2500 Series is supported with Intel's 5 year limited warranty and customer support.

Extended Management Tool Set

In addition to the Intel® SSD Toolbox, a new Intel® SSD Pro Administrator Tool is introduced. With the ability to manage security features unique to the Intel® SSD Professional Family, such as Microsoft* eDrive enablement and SSD reset, the Intel SSD Pro Administrator Tool can help IT Administrators spend less time worrying and more time enabling productivity when using the Intel SSD Professional family.

TECHNICAL SPECIFICATIONS⁴

Product Ordering Information To order, visit intel.com/go/ssd Software Tools Intel® Solid State Drive Toolbox with Intel® SSD Optimizer at www.intel.com/go/ssdtoor	TECHNICAL SPECIFICATIONS"				
Capacity (GB) ⁶ 2.5" – 120, 180, 240, 360, 480 NAND Flash Memory 20nm NAND Flash Memory Multi-Level Cell (MLC) SUSTAINED SEQUENTIAL READS / WRITES M.2 2.5" Bandwidth ^{6,7} M.2 2.5" KB READS / WRITES M.2 2.5" Random I/O Operations per Second ^{6,7} M.2 2.5" Interface SATA 66b/s, compatible with SATA 3Gb/s up to 48K / 80K IOPs Form Factor, Height and Weight M.2 (80mm, 60mm) 2.5" Life Expectancy 1.2 million hours Mean Time Between Failures (MTBF) M.2 2.5" Power Consumption M.2 2.5" Idle: 55mW Typical ⁶ Active: 165 mW Typical ⁸ Idle: 55mW Typical ⁹ Idle: 55mW Typical ⁹ Operating Temperature 0° C to 70° C 5mW RoHS Compliance Meets the requirements of European Union (EU) RoHS Compliance Directive Product Ordering Information To order, visit intel.com/go/ssd Software Tools Intel ⁸ Solid State Drive Toolbox with Intel ⁸ SSD Optimizer at www.intel.com/go/ssd	Model Name	Intel® Solid State Drive Pro 2500 Series			
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Product Ordering Information To order, visit intel.com/go/ssd Intel® Solid State Drive Toolbox with Intel® SSD Optimizer at www.intel.com/go/ssdtoo	Operating Temperature	0° C to 70° C			
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Software Tools	Product Ordering Information	To order, visit intel.com/go/ssd			
Intel® Data Migration Software at www.intel.com/go/ssdinstallation	Software Tools	Intel® Solid State Drive Toolbox with Intel® SSD Optimizer at www.intel Intel® Data Migration Software at www.intel.com/go/ssdinstallation			

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 $^{\rm 1}$ Microsoft eDrive is turned "OFF" as Out-of-the –box factory default setting

² Based on product specification comparison between an Intel[®] SSD and an HDD ³ J. Gold Associates White Paper, Investing in Solid State Drive Offers Significant Cost Advantage

⁴ Based on the Intel[®] Solid-State Drive Pro 2500 Series Product Specification.

⁷ Random 4KB writes measured using out-of-box SSD

⁸ Active power measured during execution of MobileMark* 2007 Workload with SATA Link Power Management (LPM) enabled.
⁹ Idle power defined as SSD at idle with SATA Link Power Management (LPM) enabled.

"Tote power defined as SSD at fole with SATA Link Power Management (LPM) enabled.

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⁵ All capacities and form factors will not be available at launch.

Performance measured using Iometer with Queue Depth 32. Measurements are performed on 8GB of logical block address (LBA) range on a full SSD.

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