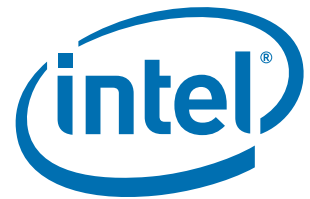


Product Brief

Intel® High-Performance SATA Solid-State Drive Product Line

NAND Storage Solutions from Intel



Intel® X25-M and X18-M Mainstream SATA Solid-State Drives

High-Performance Storage for Notebook and Desktop PCs



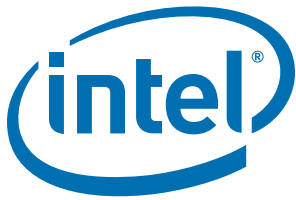
The Intel® X25-M and X18-M Mainstream SATA Solid-State Drive (SSD) bring a new level of performance and reliability to notebook and desktop PC storage.

Wait Less. Do More.

Why wait for a traditional hard disk drive to spin up? Unlike traditional hard disk drives, Intel® Solid-State Drives have no moving parts, resulting in a quiet, cool, highly rugged storage solution that also offers faster system responsiveness. And for notebook PCs, the lower power needs of Intel SSDs translate to longer battery life and lighter notebooks. Higher performance with more durability mean you can be truly mobile with confidence.

Better by Design

Drawing from decades of memory engineering experience, Intel Mainstream SATA Solid-State Drives are designed to deliver outstanding performance, featuring the latest-generation native SATA interface with an advanced architecture employing 10 parallel NAND Flash channels equipped with multi-level cell NAND Flash memory. With powerful Native Command Queuing to enable up to 32 concurrent operations, Intel Mainstream SATA SSDs deliver higher input/output per second and throughput performance than other SSDs on the market today—and drastically outperform traditional hard disk drives. These drives also feature low write amplification and a unique wear-leveling design for higher reliability, meaning Intel drives not only perform better—they last longer.



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Two Options. No Worries.

Intel® Mainstream Solid-State Drives are available in either 2.5" (Intel® X25-M Mainstream SATA Solid-State Drive) or 1.8" (Intel® X18-M Mainstream SATA Solid-State Drive) standard hard drive form factors. And all Intel Mainstream SSDs are tested and validated on the latest Intel-based notebook and desktop platforms for your peace of mind.

Intel® Mainstream SATA Solid-State Drive

Technical Specifications	
Model Name	Intel® X18-M Mainstream SATA Solid-State Drive Intel® X25-M Mainstream SATA Solid-State Drive
Capacity	80 GB and 160 GB
NAND Flash Components	Intel® Multi-Level Cell (MLC) NAND Flash Memory 10 Parallel Channel Architecture with 50nm MLC ONFI 1.0 NAND
Bandwidth	Sustained Sequential Read: up to 250 MB/s Sustained Sequential Write: up to 70 MB/s
Read Latency	85 microseconds
Interface	SATA 1.5 Gb/s and 3.0 Gb/s
Form Factor	X18-M: 1.8" Industry Standard Hard Drive Form Factor X25-M: 2.5" Industry Standard Hard Drive Form Factor
Compatibility	SATA revision 2.6 compliant. Compatible with SATA 3 Gb/s with Native Command Queuing and SATA 1.5 Gb/s interface rates
Life Expectancy	1.2 million hours Mean Time Before Failure (MTBF)
Power Consumption	Active: 150 mW Typical (PC workload ¹) Idle (DIPM): 0.06 W Typical
Operating Shock	1,000 G/0.5 ms
Operating Temperature	0°C to +70°C
RoHS Compliance	Meets the requirements of EU RoHS Compliance Directives
Product Health Monitoring	Self-Monitoring, Analysis and Reporting Technology (SMART) commands, plus additional SSD monitoring

For more information, visit www.intel.com/go/ssd.

1. Active power is measured during execution of MobileMark 2007 Productivity 2007 benchmark. Drive will initiate DIPM request to the host if idle for 25 msec whether or not standby or sleep command is received. If DIPM request is acknowledged drive will enter idle power mode.

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