

# Intel Solid-State Drive Toolbox Enables Users to Maximize SSD Performance over Time

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New Intel Solid-State Drive Toolbox - Intel Corporation today announced the availability of the Intel Solid-State Drive (SSD) Toolbox, with Intel SSD Optimizer and firmware update, for its 34nm Intel X25-M Mainstream SATA SSDs. The latest tools feature an easy-to-use graphical user interface to help better manage and retain the out-of-box performance of Intel SSDs.

On the heels of the Microsoft Windows 7 introduction, Intel Corporation today announced the availability of the Intel Solid-State Drive (SSD) Toolbox, with Intel SSD Optimizer and firmware update, for its 34nm Intel X25-M Mainstream SATA SSDs. The latest tools are designed to help better manage and retain performance of Intel SSDs.

An SSD is built to replace a traditional [hard disk drive](#) (HDD) with added performance, lower power consumption and higher reliability. The [Intel](#) SSD Toolbox allows users to more effectively monitor and manage the SSD's health. The firmware upgrade and Intel SSD Optimizer use the Windows 7 ATA Data Set Management Command (known as Trim) to help keep the Intel SSD running at continued high performance. In addition, the SSD Toolbox and Optimizer also allow the respective enhancements to work with Windows XP and Vista operating systems.

For 34nm X25-M 160GB owners, the firmware update also offers a performance boost to sequential write speeds by delivering up to 100MB per second, a 40 percent performance improvement over the existing firmware version.

The Trim attribute of the ATA Data Set Management Command, often referred to as Trim, synchs the operating system's view of deleted files with those that are deleted, but not erased on the drive. Trim tells the SSD which data blocks are no longer in use. This helps stabilize the performance and health of the SSD over time.

The Intel SSD Toolbox provides SSD management tools and information about the drive, including comparing Self-Monitoring and Reporting Technology (S.M.A.R.T.) drive attributes to manufacturer threshold. It provides basic and full diagnostics, along with recommended actions. The Toolbox also features an easy-to-use graphical user interface that will allow end users to schedule and run the Trim command independent of the operating system. The company recommends users install the firmware update and toolbox, and run the Trim function daily to ensure best performance. The firmware upgrade can be found at [www.intel.com/go/ssdfirmware](http://www.intel.com/go/ssdfirmware) and the Intel SSD Toolbox and Optimizer at [www.intel.com/go/ssdtoolbox](http://www.intel.com/go/ssdtoolbox) .

Intel's X25-M SSD began shipping on 34nm in July. The multi-level cell (MLC) Intel X25-M Mainstream SATA SSD is aimed at laptop and desktop PCs, and available in 80 Gigabyte (GB) and 160GB versions. SSDs are data storage devices found inside computers. Because SSDs have no moving parts they offer faster performance and greater energy efficiency and durability than traditional HDDs. A draw for gamers, media creators and technology enthusiasts, SSDs have also played a key role in the emergence of ultra-thin and light notebook PCs that are becoming increasingly popular due to their design, size and longer battery life.

Source: Intel ([news](#) : [web](#))

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