

InnoDisk iCell Technology - White Paper

Version 1.2

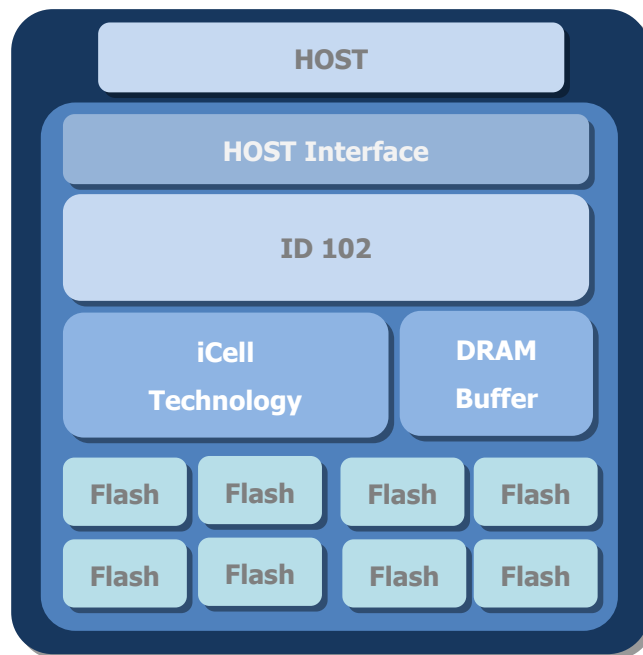
InnoRobust II prevents SSD data loss by introducing InnoDisk's new iCell technology

What is the advantage of iCell technology for SSDs?



One major building block of the recently introduced InnoRobust II SATA SSD is a DRAM buffer that benefits higher transfer rates and excellent random data transfer speed. Unexpected power supply failure would normally result in data loss, which is unacceptable to any user. InnoDisk's new iCell technology provides a temporary power back up to safely write all user data from DRAM buffer to the flash memory.

How does iCell technology work?



iCell technology is built on an array of high density capacitors and a sophisticated power fail circuitry that detects any abnormal power-off or primary power supply failure. The failure indication is directly forwarded to InnoDisk's ID 102 flash management processor that immediately starts to write all DRAM buffered user data to the flash memory cells. As a result, all user data is stored safely into flash, even if the primary power supply is unstable. This makes the recently introduced InnoRobust II SATA featuring iCell technology your choice if you need high speed random data transfer and absolute data integrity under all operating conditions.

History

Date	Version	Information
2011.08.29	1.0	First Release.
2011.10.20	1.1	Full Review.
2011.10.21	1.2	New Product Photo.