

ABSTRACT

A data backup method of a storage device which includes a storage controller, a buffer memory, and a plurality of nonvolatile memory devices, the method including: detecting a power-off event of an external power provided to the storage device; deactivating a host interface of the storage controller in response to the detection of the power-off event; moving data stored in the buffer memory to a static random access memory (SRAM) in the storage controller; blocking or deactivating a power of the buffer memory; setting an interleaving mode of the plurality of nonvolatile memory devices to a minimum power mode; and programming the data moved to the SRAM to at least one of the plurality of nonvolatile memory devices.

FIG. 4