Abstract

Portable Data Storage Device incorporating multiple flash memory units

A portable data storage device is disclosed which includes an interface 3 for enabling the portable data storage device to be used for data transfer with a host computer 5, and an interface controller 7 for controlling the interface 3. There is also a master control unit 9 for controlling the writing of data to and reading data from a non-volatile memory. The non-volatile memory includes at least one single layer cell flash memory 11 and at least one multiple layer cell flash memory 13. Upon receiving a write instruction, the master control unit 9 determines which of the memories 11, 13 data contained in the instruction should be written to, and writes the data as appropriate. Similarly, upon receiving a read instruction, the master control unit 9 reads the data from the appropriate one of the memories 11, 13, and transmits the data out of the device.

[Fig. 1]

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