ABSTRACT

Portable Data Storage Using SLC and MLC Flash Memory

A portable data storage device is disclosed that includes an interface for enabling the portable data storage device to be used for data transfer with a host computer, and an interface controller for controlling the interface. There is also a master controller for controlling the writing of data to and reading data from a non-volatile memory. The non-volatile memory is at least one single layer cell flash memory and at least one multiple layer cell flash memory. Te at least one single layer cell flash memory and at least one multiple layer cell flash memory are able to operate simultaneously for improving the speed of operation over only multiple layer cell flash memory..

Figure 1