

2.5" IDE Flash Drive

Super Talent's new 2.5" IDE flash drives are designed to be 100% compatible with standard 2.5" laptop hard drives. But these drives are built with all solid state components -- no moving parts. That means faster performance, greater reliability, and far lower power consumption than conventional hard drives. These features make these drives ideal for rugged mobile computing, high reliability applications, and extreme performance computing.



MECHANICAL

Dimensions: 100.2 x 69.90 x 6.0mm
Standard Mounting: Bottom and side mounting holes

PERFORMANCE

IDE Interface: 16.6MB/sec in PIO Mode 4
66MB/sec in UDMA mode 4
Access Time: less than 0.1 ms
Seek Time: less than 0.1 ms
ECC Logic: Data Interleave to 2 for each 256 bytes. Error correction of 1 Byte random error per 128 Bytes of data. Automatic on-the-fly, in buffer error correction

HARDWARE

Controller: Custom True IDE flash controller in 100 pin TQFP
Connector: 44-pin "laptop" IDE connector
Flash Chip: Supports all Grade-A Single Level Cell (SLC) NAND ICs
Master/Slave: Jumper setting
Cable Select: Jumper setting

POWER CONSUMPTION

Power Supply: DC 5.0V +/- 5%
Read: less than 50mA
Write: less than 60mA
Sleep: less than 500uA

RELIABILITY

MTBF: >1,000,000 hrs
ECC: Automatic on the fly ECC/EDC
Error Rate: less than 1 bit error in 1014 bit read
Write/Erase Cycles: >1,000,000 cycles
Data Retention: > 10 years

ENVIRONMENTAL

Operating Shock: 1000-G
Operating Vibration: 15-G
Operating Temp.: 0 C to +70 C
Storage Temp.: -20 C to +65 C
Relative Humidity: 5% to 95% non-condensing
Altitude: 50,000 ft

CAPACITY

Available from 4GB to 16GB