

Maverick™

Overview

The Maverick 3.5-inch hard disk drives offer cost-conscious users 270 MB and 540 MB of storage, the largest capacities in their price class, as well as a broad array of performance, reliability, and power-saving features. They provide ideal storage solutions for PC systems used in home and small business environments.

The Maverick drives, based on Quantum's earlier ProDrive LPS Series, have innovative hardware and firmware features and an improved data rate that enhance performance. The AT versions of the drives support Local Bus IDE and Fast Multiword DMA, while the SCSI versions support Fast SCSI-2 for higher overall system performance.

The Maverick 270 and 540 drives also feature uncompromising quality and reliability. Quantum's proprietary integrated circuit technology allows a reduced parts count which contributes to reliability and low-power consumption.

Environmentally friendly, the Maverick drives feature a low-power design and system-controlled, power-saving modes. This allows system manufacturers to comply with energy-efficiency design requirements like those of the U.S. EPA's Energy Star Pro program. In addition, the drives are "whisper quiet," a feature increasingly important to PC users working at home or in small offices.

The Maverick hard disk drives are a perfect match with stand alone PCs running popular personal and business software, including word processing, spreadsheets, database management, and multimedia applications for entertainment and education.

Performance Features

AutoTransfer Technology

AutoTransfer uses the intelligent processing features of the Maverick drives and a Quantum-proprietary ASIC design to minimize delays for command overhead. This produces faster data transfer rates to help meet the increased performance needs of PC applications.

Adaptive Segmentation

The buffer on the Maverick drives features Adaptive Segmentation for more efficient use of RAM memory. With this feature, the buffer space needed for read and write operations is dynamically allocated, which yields higher data transfer rates from a smaller buffer.

AutoRead and AutoWrite

Quantum's AutoRead and AutoWrite technology speeds sequential data access by transferring time-consuming read and write functions previously implemented in firmware to ASICs.

Fast Multiword DMA Support

Fast Multiword DMA allows high-speed, buffer-to-host data transfers of 13 MB/second in PC system designs using DMA transfers. This benefits users transferring large amounts of data in multimedia applications and networking environments.

Local Bus IDE Compatible

The Maverick disk drives using the IDE-AT interface support VESA VL and PCI local bus designs on PCs. This allows system designers to achieve data rates of 11 MB/second with I/O Channel Ready or 6 MB/second without I/O Channel Ready.

Fast SCSI-2 Support

The new drives support the SCSI-2 interface and Fast SCSI data transfer rates of 10 MB/second. Advanced PC systems will use Fast SCSI I/O to achieve higher overall performance.

Reliability and Versatility Features

Error Correction Code (ECC) On-the-Fly

The Maverick hard disk drives use a custom ASIC to implement a state-of-the-art error correction code scheme that increases data integrity at high throughput rates.

Power-Saving Modes

The Maverick drives have system-controllable power modes that enable system designers to customize power configurations to meet energy-efficiency design requirements like those of the U.S. EPA's Energy Star Program.

DiskWare Downloadable Firmware

Using DiskWare, Maverick drives can be upgraded while still installed in systems. This convenient feature saves time and eliminates the possibility of handling damage.