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Find the *Western Digital WD1003-WA2* at our website: *Click HERE*

WESTERN DIGITAL
CORPORATION

WD1003-WA2 Winchester/Floppy Disk Controller
ADVANCED INFORMATION

FEATURES

- AT COMPATIBLE WINCHESTER AND FLOPPY CONTROLLER
- CONTROLS UP TO TWO WINCHESTER DRIVES (ST506/ST412, 16 R/W HEADS EACH, 2048 CYLINDERS)
- CONTROLS UP TO TWO FLOPPY DISK DRIVES:
  - DOUBLE-SIDED
  - DOUBLE DENSITY (360kB, 250kbs, MFM)
  - QUAD DENSITY (1.2MB, 500kbs, MFM)
  - FOUR DATA RATES (500kbs, 300kbs, 250kbs, and 125kbs)
  - SUPPORTS 360 AND 300 RPM SPINDLE SPEED
- WD2010A-05 WINCHESTER DISK CONTROLLER
- 8-BIT, BI-DIRECTIONAL BUS HOST INTERFACE FOR CONTROL AND STATUS TRANSFERS
- HIGH-SPEED, 16-BIT PIO DATA TRANSFERS
- 32-BIT ECC OR WINCHESTER ERROR DETECTION AND CORRECTION, CRC FOR ID FIELDS
- DIAGNOSTIC MODE FOR ERROR CHECKING
- WRITE PRECOMPENSATION LOGIC
- WD10C20 DATA SEPARATOR AND WRITE PRECOMPENSATION DEVICE
- WD11C00A-22 (RMAC) AND WD16C92 FLOPPY DISK READ/WRITE CONTROLLER (FRWC) REDUCE POWER CONSUMPTION AND COMPONENT COUNT
- ALLOWS CONCURRENT OPERATION OF ONE FLOPPY AND ONE WINCHESTER DRIVE

DESCRIPTION

The WD1003-WA2 is a cost reduced version of the WD1002-WA2. The WD1003-WA2 is an IBM Personnal Computer AT bus compatible Winchester/Floppy disk controller designed to interface up to two Winchester and up to two floppy disk drives. The board permits the concurrent operation of one floppy and one fixed disk drive. The Winchester drive interface is compatible to the Seagate Technology ST506 standard interface for 5Mbs hard disk drives. The floppy disk drive interface supports 1.2MB, 360 RPM drives as well as 360kB (SA450) drives. The WD1003-WA2 includes all necessary receivers and drivers to allow direct connection to the drive(s).

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