



Compatibility report

Deskstar 40GV & 75GXP

Ultra ATA/100



Models:	DTLA-305010	DTLA-307015
	DTLA-305020	DTLA-307020
	DTLA-305030	DTLA-307030
	DTLA-305040	DTLA-307045
		DTLA-307060
		DTLA-307075

Compatibility

The IBM SIT Lab thoroughly tests Deskstar drives for compatibility with a wide variety of systems, controller cards, and operating systems. Testing was done to demonstrate compatibility with the hardware and software listed in this document. Other combinations of hardware and software are expected to function with this drive, but have not been tested.

See *Deskstar 40GV & 75GXP Hints & Tips* for an explanation of the following:

- BIOS limitations and display errors
- UDMA operating difficulties experienced with certain motherboards and operating systems
- Capacity limitation issues and solutions
- Enabling / checking UDMA operation under Linux
- UDMA cabling requirements

Systems / System boards

Processors

ABIT BE6	Celeron
ABIT BP6 (with HPT366)	Celeron
AOPEN AX6B	PII
Apple Power Mac G3 (Beige)	Power PC G3
Apple Power Mac G3 (Blue & White)	Power PC G3
Apple Power Mac G4	Power PC G4
ASUS P5A / P5S-VM	AMD-K6-3
Biostar M6SBA	Celeron 466
Biostar M6TWC100	Celeron 466
Chaintech 6LTM	PII-266
Compaq AP 550	PIII
Compaq DeskPro EN /EP	Celeron
Compaq DeskPro EN/D	PIII

Compaq DeskPro EN SFF	PIII
Compaq DeskPro EP 6500	PIII
Compaq Presario 5050 / 5610/5900	PIII
Compaq Presario 5900Z	AMD
Compaq ProSignia	Celeron
Compaq Workstation AP550	PIII
Dell Dimension L466C	Celeron
Dell Dimension L500c	Celeron
Dell Dimension L500r	PIII
Dell Dimension XPS B600r	PIII
Dell Dimension XPS T450	PIII
Dell OptiPlex GX1M / GX1pM+	PIII
Dell OptiPlex GX100 / GX110/T	PIII
Dell Precision WS 220MT / 400MT/410MT	PIII
Dell Precision WS 420MT	Dual PIII
Dell Precision WS 610MT	PIII Xeon
DFI P5-BV3	P5-200 (note 3)
Elitegroup P6BX-A+	PII-333
Elitegroup P5SS_Me	AMD-K6-3
EPOX EPOX	Pentium
EPOX EP-51MVP3E-M	Pentium
FIC CW31	
FIC SD 11	AMD
Gateway E-1400 500c	Celeron
Gateway E-3200	PII
Gateway E-4400	PIII
Gateway E-5200	PII
Gateway E-5250	PIII Xeon
Gateway E-5400	PIII
Gateway Essential 466c	Celeron

IBM storage products

Gateway GP6 350	PII (note 4)
Gateway 550LS	PIII Xeon
Gateway Performance 550	PIII
Gateway Select 475/800/1000	AMD-K6-2
Gigabyte GA-686BXS	PII-333
Gigabyte GA-71X	AMD-K7
HP Kayak XA6	PII - 300
HP Kayak XU800	PIII - 500
HP Vectra VL6 / 450	PII-450
HP Vectra XW6 / 200	Dual P6-200
IBM Intellistation MPro	PIII
IBM PC 300PL	PIII
IBM PC 300GL	Celeron
Intel CA810E	Celeron
Intel ICH 2 (ATA100)	Intel
Micron Millennia EX	PIII
Micron ClientPro DX500	PIII
Micron ClientPro CF	Celeron
Micron Millennia Max	PIII
Microstar MS-5169 K6-233 & K6-350	(note 5)
M-Tech MIG-R557	Cyrix-P200+
NEC Direction SPL-266	PII (note 6)
QDI Advance 5 / 133E	
Shuttle SpaceWalker	AMD-K6-2
Soyo SY6KB PII-266	
Soyo SY61ZA	Celeron
Supermicro P6DGE / P6DGU	PIII
Supermicro PIISWA	
Tekram P5M4-M	AMD-K6-3
Tekram P6B40-A4X PII-333	AMD-D-K-3
Tyan S2054	Celeron 433
Tyan Thunderbolt	

System board chipsets

Ali Aladdin 543c
AMD-750 (note 9)
HPT-366
HPT-377
Intel 430TX
Intel 440BX/EX/FX/GX/LX/ZX
Intel 810 / 810e / 820 / 840 (82801AA)
Intel 82801AC
VIA Apollo MVP3 / VT82C586B
VIA Apollo MVP4
SiS 530 / 5595 (UDMA/66)
SiS 620 / 5595 (UDMA/66)

System board BIOS

AMI
Apple
Award (note 1)
Compaq
HP (AMI)
HP (Phoenix)
Phoenix
Surepath

IDE add-on controllers

CMD PCI-649 (ATA100)
Highpoint HPT 377 (ATA100)
Promise Ultra33 ATA Accelerator (note 7)
Promise Ultra66 ATA Accelerator (note 7)
Promise Ultra100 ATA (note 8)
Promise FastTrack100 (RAID)

Operating systems

Apple Mac OS 8.6 & 9.0
Linux (Redhat 6.1 & 6.2 / SuSe 6.1 / Corel)
MS DOS 6.22
MS DOS 6.3
PC DOS 7.0
PC DOS2000
SCO Unixware v7.1.1
Windows 95 (OSR2.1 & OSR2.5)
Windows 98 & Windows 98 SE
Windows NT 4.0 (with SP5 / SP6a)
Windows 2000 (note 2)

Drive capacity

Ontrack's DiskManager/DiskGo software has been successfully used to allow full drive capacity in systems that will not support large capacity drives.

StorageSoft's DriveGuide has also been verified to successfully install these Deskstar products.

Master/Slave operation

The DTLA-3xxxxx product family has been tested to the limits of the ATA/ATAPI-5 specification Master/Slave timings in both Master and Slave configurations to ensure compliance and correct functionality with all other ATA/ATAPI-5 compliant devices.

Hard disk drive management utilities

The following third-party utilities have been tested with the DTLA-3xxxxx product family:

Norton Utilities	(Symantec)
Ghost	(Symantec)
Partition Magic	(Power Quest)

Third party certification

Microsoft Combined Logo/PC98/PC99 Compliance Certification is in progress. The Submission IDs are listed below:

- Deskstar 40GV:
Submission ID: 27044/27603
- Deskstar 75GXP:
Submission ID: 27044/27603

Third party evaluations

The following companies have evaluated the DTLA-3xxxxx product family for compatibility with their products:

- Adaptec
- AMD
- AMI
- CMD Technology Inc
- High Point Technologies Inc
- Intel Corp
- IWill Corp
- Linux SUSE
- Micron Electronics
- Microsoft
- Novell
- OnTrack Data International Inc
- Pacific Digital Corp
- Phoenix Technologies LTD
- Promise Technology
- SIIG
- StorageSoft

- Tyan Computer
- Unicore Software

Notes:

- 1) At the time of testing older releases of Award BIOS do not support hard drives with capacity greater than 33.8 GB. A common symptom is a hang condition during System Post. Installing drives of more than 32 GB requires use of a third-party utility. See the section titled Drive Capacity.
- 2) Windows 2000 setup does not allow a FAT32 file system larger than 32 GB. With drives larger than 32 GB multiple partitions will be required. Alternatively, the NTFS file system can be used.
- 3) Enabling UDMA operation with these boards can cause a malfunction. See the *Deskstar 40GV & 75GXP Hints & Tips* for specific instructions to solve this problem.
- 4) To use the Promise ATA Accelerator in this system the operating system must first be installed using the on-board ATA interface. The Promise Driver can then be added and the hard drive can be moved to the Promise interface.

- 5) At the time of testing correct UDMA/33 operation could only be achieved under Windows by using a thirdparty driver rather than the drivers provided by MSI.
- 6) To use the 3Ware Disk Switch in this system the operating system must first be installed using the on-board ATA interface. The 3Ware Driver can then be added and the hard drive moved to the 3Ware interface.
- 7) Power management features provided by the operating system do not extend to drives attached to the Promise card.
- 8) Write performance may be impacted unless this controller is used in an ATA/66 capable system.
- 9) The AMD driver incorrectly responds to the UDMA mode 5 capability posted by the DTLA-3xxxxx. Performance is therefore limited to UDMA mode 0 when attached to this chipset. AMD is working on a new driver to resolve and provide correct UDMA mode 4 operation.



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