

Hitachi Global Storage Technologies

Compatibility summary

Hitachi Deskstar 120 GXP

Ultra ATA/100 hard disk drive



Models: IC35L020AVVN07 IC35L060AVVA07
 IC35L020AVVA07 IC35L080AVVA07
 IC35L040AVVN07 IC35L100AVVA07
 IC35L040AVVA07 IC35L120AVVA07

Compatibility

The Storage Integration Lab thoroughly tested the Deskstar 120GXP drives for compatibility with a wide variety of systems, controller cards, and Operating Systems. Testing was to demonstrate compatibility with the following hardware and software. Other combinations of hardware and software are expected to function with this product family, but have not been tested.

Systems and System boards

Systems:		HP	KAYAK DRAGSTER K2
Apple	Power Mac G4	HP	KAYAK XU800
COMPAQ	iPAQ	HP	VECTRA AIRWALK
COMPAQ	DeskPro EN6600	HP	VECTRA VL410
COMPAQ	Presario 5005R 'Microwave 2'	HP	VECTRA VL600
COMPAQ	Presario 7000 'Quicksilver'	HP	VECTRA VE Cxxx series
COMPAQ	Presario 7001CL 'Pipeline'	IBM	Aptiva 2142-S67
COMPAQ	Presario 7E13 'Elise'	IBM	Eserver 'Storm'
COMPAQ	Workstation AP550	IBM	Intellistation Z Pro 'Thor'
DELL	Dimension 4100 'Zuul'	IBM	NetVista A40p-6841
DELL	Dimension 8100 / 8200	IBM	NetVista A40p 'Sands'
DELL	Optiplex GX110 'Jalapeno'	IBM	NetVista 'Razor'
DELL	Optiplex GX150 'Skydive'	IBM	NetVista 'Unity'
DELL	Optiplex GX1p/M+ (K2)	IBM	PC300GL
DELL	PowerApp 110 (Razor II)	MICRON	Millennia Max XP
DELL	Poweredge 300 (Newt)		
DELL	Precision WS 420 MT (Avalanche)	System Boards:	
Gateway	E-4400 (Valhalla)	ABIT	KA7 / KA7 - RAID
Gateway	E-5400 (Hawaii)	ABIT	KT7-RAID Highpoint
Gateway	Essential 466c	ABIT	SE6
Gateway	Performance 533	ABIT	TH7 (RAID)
Gateway	Profile 3	AOPEN	AX34 Pro II
Gateway	Select 1000 (Kodoka)	AOPEN	AX37Plus
Gateway	Select 475 (Lucas)	AOPEN	AX6C
Gateway	Select 800 (Kodoka)	AOPEN	AX63 Pro
HP	Pavillion XE783 'Tortuga'	AOPEN	MX3W
HP	Pavillion XV799 'Alcatraz'	ASUS	A7A266
HP	Pavillion 'Burmuda'	ASUS	A7V
HP	Pavillion 'Cozumel'	ASUS	CUC2
HP	Pavillion 'Sonic'	ASUS	CUSL-2
		ASUS	P4T
		ASUS	P5S-VM

BIOSTAR	M6SBA
Chaintech	6LTM
DFI	P5-BV3+
Elite	K7S5A
Elite	P5SS-Me
EPoX	EP-7KXA
FIC	AD11
FIC	PA-2013
FIC	SD11
Gateway	GP6-450
Gigabyte	GA6W XM-e
Gigabyte	GA7IX / GA7ZX / GA8TX
Intel	CA810E
Intel	D850GB
M-Tech	MIG-R557
Microstar	MS5169
Microstar	MS6167
Microstar	MS6321
Microstar	MS8156Pro
QDI	LEGEND ADVANCE 5/133E
Soyo	SY-6BA+100
Soyo	SY-61ZA
Supermicro	PIIISWA
Supermicro	P4DC6
Supermicro	P4STA
Tekram	P5M4-M
Tyan	S2380 Trinity K7
Tyan	THUNDERBOLT

System board chipsets

Ali Aladdin M1543 / Aladdin V
 Ali Magik 1
 AMD-750 / 751 / 686A / 760
 HPT-370
 Intel 430TX/440BX/440GX/440LX/440ZX
 Intel 810 / 810e / 815 / 820 / 820e / 840 / 850
 Intel 82801AA / 82801BA
 VIA KX133 / KT133 / KT133A / Pro133B / KT266 /
 PM266T
 VIA Apollo MVP3 / VT586B / VT686A / VT686B
 VIA Apollo MVP4
 SiS 530 / 5513 / 620 / 645S / 730S / 735

System board BIOS

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

IDE 'add-on' Controllers

Adaptec AAA-Ultra (UDMA66 - RAID) (notes 7 & 8)
 3ware Escalade 3W-6200
 AMI Hyper Disk (Ultra ATA100)
 Highpoint HPT 370
 IWill Side RAID 100 (note 7)
 Promise Ultra66 ATA Accelerator (note 3)
 Promise Ultra100 ATA (note 4)
 Promise FastTrack100 (RAID) (note 7)
 Promise SuperTrack SX6000 (RAID) (note 7)

Operating systems

DOS
 LINUX CALDERA 3.1 / REDHAT 7.1 / SUSE 7.0
 MAC OS 8.0 / 9.0 / 9.1 / X.1
 SCO UnixWare7 -- release 7.1.1
 WIN 95 (OSR2)
 Win 98 / SE
 Millennium
 Win NT4 (with SP6)
 WIN 2000 (with SP2) (notes 2, 5, & 6)

Master / Slave operation

The Deskstar 120GXP has been tested to the limits of the ATA/ATAPI-6 Specification Master/Slave timings to ensure compliance and correct functionality with all other ATA/ATAPI-6 compliant devices, in both Master and Slave configurations.

Drive capacity

The following utilities available for download from the Hitachi Global Storage Technologies Website have been successfully used to allow full access to Deskstar 120GXP in systems that will not normally support drives of this capacity.

Disk Manager 2000
 DM9.5x - Ontrack

Hard Drive management Utilities

The following third party utilities have been tested with the Deskstar 120GXP:

Ghost 2001	(Symantec)	
Partition Magic 5	(Power Quest)	(note 9)
Partition Magic 6 Pro	(Power Quest)	
SMARTDefender	(OnTrack)	

Third party certification

Microsoft Combined Logo / PC98 / PC99 Compliance Certification is in progress for the Deskstar 120GXP.

Submission ID: 571216

Third party Evaluations

At the time of drafting the following companies are evaluating the Deskstar 120GXP for compatibility with their products:

Ali	Intel
AMI	SiS
Award / Phoenix	VIA

Specific notes

1. At the time of testing older releases of Award BIOS do not support hard drives with a capacity greater than 33.8 GB. A common symptom is a hang condition during System POST. To install Deskstar drives that are greater than 30 GB requires use of a third party utility (see "Drive Capacity" above).
2. Since Windows 2000 setup does not allow a FAT32 file system larger than 32 GB, multiple partitions will be required with the Deskstar 120GXP. Alternatively the NTFS file system can be used.
3. Power management features provided by the Operating System do not extend to drives attached to the Promise card.
4. Write performance may be impacted unless this controller is used in a ATA/66 capable system.
5. Microsoft Hot Fix Q260233 is required for installations involving Windows 2000 and ULTRA100 ATA . See the Microsoft Website
6. Windows 2000 provides ACPI support. In most situations users can benefit from this feature. However in some systems it may be found necessary to disable ACPI to avoid poor performance, or worst case data corruption due to incorrect shutdown.
7. In order to maximize performance when multiple Deskstar 120GXP drives are installed within a system enclosure, adequate mechanical isolation must be provided between the drives to avoid transmission of operational vibration from one drive to other drives within the system.
8. Due to the large capacity of the Deskstar 120GXP BIOS v4.40.09 (or later) is required on this controller.
9. The size of partitions is limited to 64 GB using this version.

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