

Hitachi Global Storage Technologies

Compatibility summary

Hitachi Deskstar 180 GXP

Ultra ATA/100

Models: IC35L030AVV207
IC35L060AVV207
IC35L090AVV207
IC35L120AVV207
IC35L180AVV207



Compatibility

The Hitachi Global Storage Technologies Integration Lab thoroughly tested these Hitachi Deskstar 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:		Gateway	Select 400 / 475 / 800
Acer	Veriton 7200D	HP	Pavillion 8765c
Apple	Power Mac G3 & G4 (note 8)	HP	Pavillion Cozumel
Compaq	iPAQ	HP	Pavillion XL753 'Mercury'
Compaq	DeskPro EN6266/EN6500/EN6600	HP	Pavillion XL768 'Pandora'
Compaq	DeskPro EP/SB	HP	Pavillion XE783 'Tortuga'
Compaq	DeskPro EXS	HP	Pavillion XV799 'Alcatraz'
Compaq	EVO D300	HP	Pavillion 'Bermuda'
Compaq	EVO D500 SFF	HP	Pavillion 'Sonic'
Compaq	EVO W4000 DDR	HP	KAYAK XU800
Compaq	Presario 5900Z	HP	VECTRA AIRWALK
Compaq	Presario 7000 'Quick silver'	HP	VECTRA VL420 MT
Compaq	Presario 7001CL 'Pipeline'	HP	VECTAR VL800
Compaq	Presario 7E13 'Elise'	HP	VECTRA VL6/450
Dell	Dimension 2100 / 2100W	IBM	Aptiva 2142-S57 / S67
Dell	Dimension 4100 'Zuul'	IBM	Aptiva 2162-B97
Dell	Dimension 8100 / 8100W	IBM	Aptiva-E 2255-1J7
Dell	Dimension 8200	IBM	6898-22J / 46J
Dell	Optiplex GX115 'Satellite M'	IBM	e-Server 'Storm'
Dell	Optiplex GX150 'Satellite T'	IBM	Intellistation Z Pro 'Thor'
Dell	Optiplex GX1p/M+	IBM	NetVista 6339-B6J
Dell	Optiplex GX240	IBM	NetVista 6844-JA1 / 6844-SBJ
Dell	Poweredge 300	IBM	NetVista 30Z
Dell	Precision WS220/WS340/WS420	IBM	NetVista A40p
Dell	XPS M200 / R450 / T450 / B733R	IBM	NetVista 'Razor'
Gateway	E-1400 500C	IBM	NetVista 'Unity'
Gateway	E-4400 'Valhalla'	IBM	NetVista 'Valentini'
Gateway	E-5400 'Hawaii'	IBM	PC300GL
Gateway	Performance 533		

IBM PC6206-99Z
 Micron Millennia Max XP
 Shuttle SS40C

Tyan S2380 Trinity K7
 Tyan Thunder 17500

System Boards:

ABIT KA7 / KA7 - RAID
 ABIT KR7A-133
 ABIT KT7-RAID
 ABIT BE6
 ABIT TH7 (RAID)
 AOPEN AX34 Pro II
 AOPEN AX37 Plus
 AOPEN AX6B/ AX6C-L
 AOPEN AX63 Pro
 AOPEN MX3W
 ASUS A7A266/ A7M266-D/ A7V333
 ASUS CUC2/ CUSL-2/ CUW-AM
 ASUS K7-M
 ASUS MES-N / MES-VM / MEW
 ASUS P2B
 ASUS P2L97
 ASUS P3C-E
 ASUS P4B266
 ASUS P4T
 ASUS P5S-VM
 ASUS TUA266/W0A
 Elitegroup K7S5A
 Elitegroup P6S5AT
 EPoX EP-3VBA
 EPoX EP-51MVP3-M
 EPoX EP-MVP3G5
 EPoX EP-7KXA
 FIC AD11/ SD11
 Gigabyte 7VTXH
 Gigabyte GA-686BX
 Gigabyte GA-7DXR
 Gigabyte GA6W XM-e
 Gigabyte GA7ZX/ GA8TX
 Intel 845WN
 Intel CC820
 Intel D850GB
 Intel SE440BX
 Intel SA12
 Intel SCB2
 Jetway V266B
 M-Tech MIG-R557
 Micron Millenia XKU
 Microstar MS5169/ MS6167/ MS6321
 Microstar MS8156Pro
 Microstar KD7 Master/ K7N420 Pro
 Soyo SY-5EH5/ M
 Soyo SY-5SSM
 Soyo SY-6BA+100
 Soyo SY-61ZA
 Supermicro P3SCD
 Supermicro P4DC6 / P4STA
 Supermicro P6DGU / P6SBA
 Tekram P5M4-M
 Tyan S1834D-1

System board chipsets

Ali Aladdin M1535D/ Aladdin V/ Magik 1
 AMD-750/ 751/ 760MPX
 HPT-370
 Intel 430FX/ 430TX/ 30VX/ 440BX/ 440GX/ 440LX
 Intel 810/ 810e/ 815/ 820/ 820e/ 840/ 845/ 850/ 860
 Intel 82801AA/ 82801BA/ 82801CA / 82801DA
 SiS 530/ 620/ 635/ 735
 VIA KT133/ KT133A/ KT266
 VIA Apollo MVP3/ Pro133/ Pro133A/ Pro133B/ Pro266
 VIA VT686A/ VT8233A
 VIA Apollo MVP4

System board BIOS vendors

AMI
 Apple
 Award (note 1)
 Compaq
 Phoenix
 Surepath

ATA 'add-on' Controllers

Adaptec AAA-Ultra (UDMA66 - RAID) (note 5 / 6)
 3ware Escalade 7000
 AMI Series 795 revC Hyper Disk (Ultra ATA100)
 Highpoint HPT 370
 IWill Side RAID 100 (note 5, 6)
 Pacific Digital DiscStaQ (note 9)
 Promise Ultra133 ATA Accelerator (note 5, 6)
 Promise UltraTrak 100 (note 3)
 Promise UltraTrak 100 TX2 (note 5, 6)
 Promise UltraTrak 100 TX4 (note 5, 6)
 Promise UltraTrak SX4000 (note 5, 6)
 Promise SuperTrak SX6000 (RAID) (note 5, 6)
 Snap Appliance 12000 (note 5, 6)
 Zentra Arena EX2 (note 5, 6)

Operating systems

DOS (various)
 Free BSD
 LINUX REDHAT 7.1 - 7.2 - 7.3 / SuSE 8.0
 MAC OS 8.6 / 9.0 / 9.0.2 / X.1
 SCO UnixWare7 -- release 7.1.1
 WIN 95 (OSR2)
 Win 98 / SE
 Windows Millennium
 Win NT4 (with SP6a)
 WIN 2000 (with SP3) (note 2, 3, 4)
 Win XP (with SP1) (note 7)

Master / Slave operation

The Hitachi Deskstar 180GXP product family 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

At the time of writing the following utility is being evaluated by Hitachi to allow full access to large examples of the Hitachi Deskstar 180GXP in systems with BIOS that will not normally support drives of this capacity :

Disk Manager 2000 / DM9.5x - Kroll Ontrack Inc

Hard Drive management Utilities

The following third party utilities have been tested with the Hitachi Deskstar 180GXP product family:

Ghost 2002	(Symantic)
Partition Magic 7	(Power Quest)
SMARTDefender	(Kroll Ontrack)

Third party certification

Microsoft Combined Logo / PC98 / PC99 Compliance Certification is in progress for the Hitachi Deskstar 180GXP.

Submission Id : 634255

Third Party Evaluations

At the time of drafting the following companies are evaluating the Hitachi Deskstar 180GXP product family for compatibility with their products:

Highpoint Technology
Intel
Kroll Ontrack
Pacific Digital

Specific notes

1) At the time of testing older releases of Award BIOS do not support hard drives with capacity greater than 33.8GB. A common symptom is a hang condition during System POST. To install a Hitachi Deskstar 180GXP drive that is >30GB will require use of a third party utility (see Drive Capacity section above).

2) Since Windows 2000 setup does not allow a FAT32 file system larger than 32GB, multiple partitions will be required with the Hitachi Deskstar 180GXP. The NTFS file system also can be used.

3) Microsoft hot fix Q260233 is required for installations involving Windows 2000 and ULTRA100 ATA . See the Microsoft Website

4) 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.

5) In situations where multiple Hitachi Deskstar 180GXP drives are being installed within a system enclosure:- To maximise performance, care should be taken to ensure that adequate mechanical isolation is provided between the drives, to avoid operational vibration from one drive being transmitted to other drives within the system.

6) Due to the large capacity of some Hitachi Deskstar 180GXP drives the latest BIOS will be required on this controller.

7) Service Pack 1 is required to access full capacity of 180GB model of the Hitachi Deskstar 180GXP.

8) We are unaware of any drivers or upgrades available for large drive support on older Apple systems. Users will need to contact the Apple Support Center to see if an upgrade is available.

9) Supports Hitachi's performance enhancing "Tag 'n Seek" Technology.

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