

HITACHI

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Compatibility Summary

Deskstar 7K250

ATA/IDE

HDS722504VLAT20
HDS722508VLAT20
HDS722512VLAT20
HDS722512VLAT80
HDS722516VLAT20
HDS722516VLAT80
HDS722525VLAT80



Compatibility

The Hitachi Storage Integration Lab tested this family of Deskstar drives for compatibility with a wide variety of systems, Host Buss Adaptor 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 evaluated.

Hitachi Global Storage Technologies recommends you back up all data before installing your new hard drive.

Compatibility (continued)

IBM	Aptiva 2162-B97
IBM	Aptiva-E 2255-1J7
IBM	6898-22J / 46J
IBM	Netvista 6339-B6J
IBM	Netvista 6844-JA1 / 6844-SBJ
IBM	NetVista 30Z
IBM	PC300GL
IBM	ThinkCentre

Systems and System boards

Systems:

ACER	Veriton 7200D
ACER	M500P
Apple	Power Mac G4 (note 8)
Apple	Power Mac G4 "Mirror Drive Door"
Compaq	DeskPro EN6266/EN6500/EN6600
Compaq	DeskPro EP/SB
Compaq	DeskPro EXS
Compaq	EVO D315
Compaq	EVO D510 SFF
Compaq	Presario 6110TC
Dell	Dimension 4100
Dell	Dimension 8200 / 8300
Dell	PowerApp 110
Dell	Precision WS340 / WS530
Dell	XPS M200 / R450 / T450 / B733R
Gateway	G6-300
Gateway	GP6-450
Gateway	E-5400 'Hawaii'
Gateway	Performance 700 / 800
HP	Kayak XA
HP	VECTRA VLi8
HP	VECTAR VL6/450
HP	VECTRA VL800
HP	e-PC42
IBM	Aptiva 2142-S57 / S67

System Boards:

ABIT	BE6
ABIT	KA7 / KA7-RAID
ABIT	IT7- Max II
ABIT	NV7-133R
ABIT	TH7-RAID
AOPEN	AX34 Pro II
AOPEN	AX37 Plus
AOPEN	AX4B-533
AOPEN	AX4GE Max
AOPEN	AX63 Pro
AOPEN	AX6B
AOPEN	AX6C-L
AOPEN	MX3W
AOPEN	MX46L
ASUS	A7A266 / A7M266-D / A7V333
ASUS	CUC2 / CUSL-2
ASUS	K7-M
ASUS	MES-N / MES-VM / MEW
ASUS	P2B
ASUS	P2V+Promise 100
ASUS	P2L97
ASUS	P3C-E
ASUS	P4B266 / P4B533
ASUS	P4S8X
ASUS	P4T
ASUS	P5A+Promise 100
ASUS	TUA266/W0A
Elitegroup	K7S5A

Elitegroup	P6S5AT
EPoX	EP-3VBA
EPoX	EP-51MVP3-M +HPT100
EPoX	EP-MVP3G5
EPoX	EP-7KXA
FIC	AT31
FIC	KL-6011
FIC	SD11
Gigabyte	7VTXH
Gigabyte	GA-686BX
Gigabyte	GA-6WXM-e
Gigabyte	GA-71X
Gigabyte	8INXP
Gigabyte	GA-7ZX / GA-7DXR
Gigabyte	GA-8IHP / GA-8PE667
Intel	AL440LX / AN430TX
Intel	D845GBV
Intel	D845GPE
Intel	CC820
Intel	D850GB
Intel	SE440BX
Jetway	V266B
Micron	Millenia XKU
Microstar	645e Max 2
Microstar	MS5169 / MS6167 / MS6321
Microstar	MS8156Pro
Microstar	KD7 Master
Microstar	KT4 Ultra-SR
QDI	PlatinX-2S
Soyo	SY-5EH5 / M
Soyo	SY-5SSM
Soyo	SY-6BA+100
Soyo	SY-P4X400
Supermicro	P3SCD
Supermicro	P4DC6 / P4STA
Supermicro	P6SBA
Tekram	P5M4-M
Tyan	S1834D-1
Tyan	S2380 Trinity K7

System board chipsets

Ali Aladdin M1535D / Aladdin V
 AMD-750 / 751 / 760MPX / 761
 ETEQ
 HPT366
 Intel 430FX / 430TX / 430VX / 440BX / 440EX / 440LX
 Intel 810 / 810e / 815e / 820
 Intel 845 / 845d / 845e / 845g/gl / 845pe
 Intel 850 / 860 / 865pe / 875p / IE7205
 Intel 82801AA/82801BA/82801CA /82801DB
 SiS 620 / 635 / 645DX / 648 / 650 / 735
 VIA KT400 / KX133
 VIA Apollo MVP3 / MVP4 / Pro133
 VIA VT686A / VT8233A

System board BIOS vendors

AMI
 Apple
 Award (note 1)

Compaq
 Phoenix
 Surepath

ATA 'add-on' Controllers / RAID Enclosures Highpoint HPT 370

Promise UltraTrak 100 TX2	(note 5 / 6)
Promise UltraTrak 100 TX4	(note 5 / 6)
Promise UltraTrak SX4000	(note 5 / 6)
Promise RM4000	
Promise RM15000	
Snap Appliance 12000	(note 5 / 6)
ST Lab CMD0680R	
Zentra Arena EX2	(note 5 / 6)

Operating systems

DOS (various)	
LINUX REDHAT 7.1 - 7.2 - 7.3	(note 9)
LINUX SuSE 8.2	
MAC OS 9.2.2 / 10.2	
Windows 98 / 98SE	
Windows Millennium	
Windows NT4 (with SP6a)	
Windows 2000 (with SP3)	(note 2 / note 3 / note 4)
Windows XP (with SP1)	(note 7)

Master / Slave operation

The Deskstar 7K250 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.

Hard Drive management Utilities

The following third party utilities have been tested with the Deskstar 7K250 product family:

Norton Ghost 2002	(Symantic)	(note 10)
Norton Ghost 2003	(Symantic)	
Norton Utilities 2002	(Symantic)	
Partition Magic 7	(Power Quest)	
SMARTDefender	(Kroll Ontrack)	

Third party certification

Microsoft Windows Logo Program Certification was completed for the Deskstar 7K250.

Submission Id : 700306

General notes

See *Hints & Tips for Deskstar 7K250* for an explanation of the following:

- BIOS Limitations & Display Errors
- UDMA operating difficulties that may be experienced with certain motherboards / Operating Systems
- Capacity Limitation issues and solutions
- Enabling / Checking UDMA Operation under Linux
- UDMA cabling requirements
- Mechanical considerations in multi-drive installations

Specific notes

1) Old releases of Award BIOS do not support hard drives with capacity greater than 33.8GB. A common symptom is a hang condition during HDD detection as part of System POST. To install a Deskstar 7K250 drive that is >30GB will require either a system BIOS upgrade or use of a third party utility.

2) The Windows 2000 setup does not allow a FAT32 file system partition larger than 32GB. So with the Deskstar 7K250 family multiple partitions will be required. Alternatively NTFS file system can be used.

3) Microsoft hot fix Q260233 is required for some installations involving Windows 2000 and ULTRA100 ATA(mode 5) drives. 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. For details of how to disable ACPI see Deskstar 7K250 Hints & Tips document.

5) In situations where multiple Deskstar 7K250 drives are being installed within a system enclosure:- To maximize 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. For more details of specifics associated with RAID operation of ATA drives, see Deskstar 7K250 Hints & Tips document.

6) Due to the large capacity of some Deskstar 7K250 drives, latest BIOS will be required on this controller.

7) Service Pack 1 is required to access full capacity of 164GB & 250GB models of the Deskstar 7K250 family.

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

9) Early versions of Linux do not provide 48 bit addressing support, so will not work with larger capacities of Deskstar 7K250. See Deskstar 7K250 Hints & Tips document for more detail.

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