

IBM OEM Storage Product Integration Information

DHEA-3XXXX - ATA Hard Drives

COMPATIBILITY

Combinations of System BIOS, Operating Systems, and Device Drivers, can affect the ability of storage devices to function correctly. To minimise potential problems of this kind IBM has verified connection and successful operation of this product with a range of Systems and Operating Systems.

- This symbol denotes when testing of the drive has been carried out by a Third Party partner to confirm compatibility with their product(s).

System boards

Acer /Aopen AP53	P5-166
Acer / Aopen AP5T(430TX)	P5-133
Anco PT5 PCI	P5-133
Anco/Abit SM5	P5-166
Aopen 430TX	P5-166
Aopen 430TX	P5-200
Asus P/I-P55T2P4	166MMX
Asus P55T2P4	P5-200
Asus P/I-P6NP5	P6-200
Asus P55SP3AV	P5-133
Asus 430TX	P5-166
Asus TX97	P5-200
DFI G5860VPS	P5-166
FIC PA-2002 (Note:*3)	P5-133
FIC PA-2005 (Note:*3)	P5-166
FIC PA-2005+ (Note:*3)	P5-166
Gigabyte GA586ATM	P5-166
Intel Atlantis	P5-133
Intel Venus (Note:*4)	P6-200
Intel Tucson	P5-200
Intel Marl	P6-166
Intel 430TX	P5-200
# Intel Lonetree (TX)	
# Intel Anchorage (TX)	
Micronics M54Hi-PCI	P5-166
Micronics M54Hi-Plus	P5-133
Microstar S12	P5-90
MiTAC	P5-166
MYCOMP	P5-166
QDI	P5-120
SuperMicro P6DKF	Dual PII-233
System Tech. G586UPS	Cyrix P200+
# Tyan S1572	P5-200
# Tyan 1570	
Tyan S1662D	Dual P6-200

Systems and System Boards

Systems

Acer Aspire	P5-133
Apple Performa 5210	75Mhz
Apple Performa 5320	100MHz
Apple Performa 6400	180MHz
Apple Chimera	100MHz
AST Bravo (Note:*4)	P6-150
Compaq Deskpro 6000	P6-200
Compaq XL 6150	P6-150
Dell Optiplex GXL 5166	P5-166
Dell Dimension XPS (Note:*4)	P6-200
Dell Optiplex GXPro	P6-180
Fujitsu FMV DeskpowerTE	P5-133
Gateway 2000 G5-166	P5-166
Gateway 2000 G6-200	P6-200
HP Pavillion	P-200
M-Tech Mustang R534M	P6-200
# Mitsubishi Metros	
Viglen Genie	P5-50
Seanix Technology	P5-133
SNI Primergy 550	P5-133
System Technology G586UPS	P5-200

IBM OEM Technical Support

DHEACOM2

24th September 1997

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System Board Chipsets

ALI	M151x
OPTi	82C556, 82C557, 82C558
SiS	85C503, 85C501, 85C502 (Winbond W83769F IDE)
SiS	551X
Intel	430FX/82371FB
Intel	430HX/82371SB
Intel	440FX /82371SB
Intel	430NX
Intel	430TX/82371AB
	(Tested at 3.3volts)
VIA	Apollo 580VP (Note:*3)

Compaq Rev 6	(6/18/96)	Note:*1
Phoenix v1.10A00		
Phoenix v1.10A15		
Phoenix v4.04 rev 1.02.873	(2/19/96)	Note:*1
Phoenix v4.04 M54Hi-06P	(12/19/95)	Note:*1
Phoenix v4.05		Note:*1
Phoenix v4.06		
# Phoenix 5.1x		
# Phoenix 6.1		
Surepath	(2/26/96)	

ATA Add-on Cards

# Hipoint HPT343 UDMA		
Promise ULTRA33		Note:*1
Promise FastTrak (RAID)		

System Board BIOS

Acer v2.1		
AMI A778 052695	(10/10/94)	Note:*1
AMI A03		Note:*4
AMI 1.00.01.CN0T		
AMI 1.00.02.HDQ		
AMI 1.00.03.DB0		
AMI 100.04.CLO		
AMI 1.00.04.CS1		
AMI 1.00.05.CS1		Note:*4
AMI 1.00.06.CG0		Note:*4
AMI 1.00.09.AF2		
AMI DMI v2.0	(24/8/95)	Note:*1
AMI P51437 v1.2		
AMI WINBIOS		
Award v4.50 PG	(5/16/95)	
Award v4.50 PG	(8/18/95)	
Award v4.50 PG	(4/5/96)	
Award v4.51 PG	(5/17/96)	
Award v4.51 PG	(10/18/96)	
Award v4.51 PG	(1/28/97)	
# Award v4.51 PG	(1/31/97)	
# Award v4.51 PG	(3/13/97)	
# Award	(4/25/97)	
Award v4.52 PG	(7/17/96)	
Compaq Rev 486W	(11/29/95)	

PERFORMANCE

Where possible, the DHEA-3xxxx drive has been tested in systems that provide support for DMA-2 & UDMA/33 operation by using drivers provided by the manufacturer or recommended third party.

Operating Systems

MacOS 7.5.3 & 7.6		
MS DOS v6.0 & v6.22		
Novell Netware v3.12 & v4.1		
OS/2 v3.0		Note:*2
OS/2 v4.0		Note:*2
PC DOS v6.3 & v7.0		
SCO Open Server v5.0		
Windows NT Workstation v3.51		
Windows NT Server v4.0		
Windows for Work Groups v3.11	Note:*3	
Windows 95 (including FAT32)		

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Master / Slave Operation

DHEA-3xxxx drives have been operated together in Master and Slave modes, and similarly operated in both modes with the following hard drives:

Quantum	Sirocco
Seagate	ST566A
Western Digital	Caviar 32500

ATAPI CD & CDR Drive Compatibility

Acer	CD-910E
Acer	CD-912E
Acer	C637
Aztech	CDA 668-011
Aztech	CDA 468-021
Goldstar	CRD-8160B
Hitachi	
Imes	
Matsushita	CR-585-B (Panasonic)
MKE	SR-8581 DVD
Momitsu	CDM-H082
Mitsumi	CRMC FX001 IDE
Octek	CDR810
Pioneer	DR-411
Samsung	CD-Master 8E SCR-830
Teac	CD-56EK
Teac	CD-58E
Torisan	CDR-C3G
Toshiba	XM-5302B
Toshiba	XM-5602B
Vuego	66 51 004 (Acer)

Drive Capacity

Ontrack Disk Manager v7.09 utility software has been successfully used to allow full drive capacity in systems that will not support drives of this capacity.

Third Party Certification

Microsoft are currently certifying the DHEA-3xxxx drive as follows:

OS	6.4GB	Submission ID
Windows 95	Certified	Awaited
WindowsNT	Certified	Awaited
PC97	Certified	Certified

DHEA-36480 drives have been granted Novell Certification:

Netware Version	Bulletin
v3.12	D-2596
v4.11	D-2597

MPC3 Multimedia Certification is underway in-house.

Third Party Testing

The following companies have been evaluating the DHEA-3xxxx drive for compatibility with their products:

Adaptec	
AMI	
Award	
FWB	
Intel	
OnTrack DM 8.00	Completed
Phoenix	
Promise	
Supermicro	
Symbios Logic	
Tyan - 1570/72 boards	Completed
VIA - Completed the following:	
- VT82C580 VPX-ES	
- VT5079B2	
- VP-2	

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Notes:

- *1 Some BIOS's impose a capacity limitation for ATA drives.
DHEA-3xxxx drives provide a method to change the Logical Disk Geometry to help overcome these limitations.
It may not be possible to solve all problems in this way and third party hardware or a software utility may be required. For example
 - Promise ULTRA33 PCI Card
 - 'Disk Manager' from OnTrack.See DHEA-3xxxx Hints and Tips document for details.

- *2 Difficulties have been identified when installing OS/2 Warp onto DHEA-3xxxx drives. The solution is detailed in the DHEA-3xxxx Hints and Tips document.

- *3 The DMA Driver provided by VIA for use with FIC system boards may not function successfully with Windows v3.11. A revised driver is available from VIA.

- *4 The BIOS timeout value is too short (5 seconds) to allow the DHEA drive to spin-up in response to a command, after being in Standby mode.

All trademarks are acknowledged. This information is provided for the use of OEM Manufacturers attaching IBM disk drives and is believed to be accurate, but is supplied without guarantee.