# NEXTSTEP RELEASE 3.2 FOR INTEL PROCESSORS HARDWARE COMPATIBILITY GUIDE



### **NEXTSTEP DEVICE SUPPORT OVERVIEW**

This document describes in general terms the types of PC-compatible hardware that is supported by NEXTSTEP Release 3.2 for Intel Processors.

This guide is divided into three general sections:

- *Certified Systems* These are PC-compatible systems that have been thoroughly tested by NeXT for the highest level of compatibility with NEXTSTEP.
- *Listed Systems* These are PC-compatible systems that have been tested by a third party and reported to be compatible with NEXTSTEP.
- Other Devices and Adapters This section lists various devices, adapters and peripherals that have been tested with NEXTSTEP, or reported to be compatible with NEXTSTEP.

Please refer to the specific section for details on testing, compatibility and support of any of the listed items.

Each of these sections refers to specific NeXTanswers documents available for some listed items. To ensure the greatest possible compatibility and support, NeXT recommends reviewing any available NeXTanswers document before purchase.

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**NeXTanswers**™: This guide and many other kinds of information are available from NeXTanswers, NeXT's free information-retrieval system. For NeXTanswers documents by fax, call (415) 780-3990 from a touch-tone phone. For NeXTanswers by Internet mail, send e-mail to nextanswers@next.com with the two-word subject: INDEX HELP.

**Driver Updates:** NeXT and third parties continuously develop and enhance drivers for NEXTSTEP. New drivers or updates to existing drivers can be downloaded from the Internet via e-mail or ftp. NeXTanswers provides an easy method to obtain drivers by e-mail. As described above, follow the instructions for obtaining a document via return e-mail. (Note: You must be able to receive NeXT Mail in order to receive a driver through e-mail) To obtain drivers by ftp, use ftp to access ftp.next.com, log in as 'anonymous' with any password and cd to pub. In that directory, there is a README file that explains how to download drivers and other NeXTanswers information. The drivers are located under NeXTanswers/Files/ Drivers. If you have any further questions about how to obtain a Driver Update contact NeXT Technical Support at 1-800-955-NeXT.

For current device support, please request the latest edition of this NEXTSTEP Hardware Compatibility Guide from NeXTanswers or by calling 1-800-TRY-NeXT (or your local NeXT representative).

# Desktop System Requirements

# **OVERVIEW**

SOUND

	GENERAL REQUIREM	MENTS FOR DESKTO	P SYSTEMS
CPU	i486 <sup>®</sup> -based or Pentium <sup>™</sup> -based P0 Systems using processors without a coprocessor, or upgrade to a 486 o	a built-in floating-point coprocesso	
EXPANSION BUS	ISA, EISA, VL-Bus or PCI expansion	n bus.	
AVAILABLE HARD DISK SPACE		disk. Larger local disks are recomn	er to install and boot several operating nended for stand-alone systems or for
	User Environment 120 MB partition	on minimum, 200 MB recommende	ed for stand-alone systems.
	User + Developer Environments	330 MB partition minimum, 400 M	IB recommended.
RAM REQUIREMENTS	RAM requirements vary depending	upon your selection of graphics ac	dapter and imaging model.
	Graphics System / Imaging Model	Minimum RAM Required	Recommended RAM
	32-bit color	24 MB	32 MB
	16-bit color	16 MB	24 MB
	8-bit grayscale	12 MB	16 MB
	2-bit grayscale	8 MB	12 MB
GRAPHICS ADAPTERS	See the "Graphics" section in this g	uide for details on graphics suppor	rt.
DISK INTERFACES	IDE and several SCSI hard disk inte	erfaces are supported.	
	Note: A SCSI adapter and SCSI CI	DROM are required for installation	of NEXTSTEP.
POINTING DEVICES	Microsoft®- and Logitec®- compatib	ole PS/2® and serial mice. Logitec	bus mouse.
PRINTERS			the NeXT Color Printer (connected via cript Level II for proper color support.
NETWORKING	Several Ethernet and Token Ring no	etworking adapters are supported.	. A networking adapter is optional.

NEXTSTEP can support certain PC sound cards for both playback and recording. A sound card is optional.

# Portable System Requirements

# **OVERVIEW**

	GENERAL REQU	IREMENTS FOR PORTAB	BLE SYSTEMS
СРИ	coprocessor. Systems using	ased PC compatible portable computer. It g processors without a built-in floating-point or upgrade to a 486 or Pentium with built-	int coprocessor require an add-on
AC-POWERED PORTABLES	AC-powered portables requ ROM.	ire at least one ISA or EISA slot for a SCS	SI adapter to install NEXTSTEP from CD-
BATTERY-POWERED PORTABLES AND DOCKING STATIONS		require a docking station with at least one D-ROM drive. Once NEXTSTEP is install	
AVAILABLE HARD DISK SPACE		ole partitioned hard disks, allowing the use al hard disk. Larger local disks are recom EXTSTEP partition.	
	User Environment 120 M	B partition minimum, 200 MB recommend	ded for stand-alone systems.
	User + Developer Environ	ment 330 MB partition minimum, 400 M	B recommended.
RAM REQUIREMENTS	RAM requirements vary de	pending upon the user's selection of grap	hics adapter.
GRAPHICS ADAPTERS  DISK INTERFACES	Current display technology NEXTSTEP requires for co grayscale at 640 x 480. Act ISA systems (AC-powered graphics adapters and EISA with an add-on EISA graph	Minimum RAM Required 24 MB 16 MB 16 MB 12 MB 8 MB  Polor and 8-bit grayscale support require Liportables with EISA slots can support 32  In popular portable PC-compatibles does for or 8-bit grayscale. Therefore, NEXTST we matrix or plasma panels are recomme or through a docking station) can support labased AC-powered portables can support adapter.	2-bit, 16-bit color or 8-bit grayscale.  Interpret not yet support the linear frame buffer EP supports these systems with 2-bit inded for better cursor tracking response. add-on, high-resolution 2-bit grayscale ort 16-bit color or 8-bit grayscale graphics
DISK INTENFACES	docking station to install a S	CSI hard disk interface card.  SCSI CDROM are required for installation	
POINTING DEVICES	Microsoft- and Logitec-com	patible PS/2 and serial mice are supporte	ed.
PRINTERS		ected via a serial or parallel port, including nends color PostScript printers with PostS	
NETWORKING		etworking adapters are supported. Battering adapter. A networking adapter is option	
SOUND		rtain PC sound cards for both playback a install a sound card. A sound card is opti	

# Certified Desktop Systems

	Mode	1600 x 1200	1280 x 1024	1120 x 832	1024 x 768	800 x 600	1600 x 1200	1280 x 1024	1120 x 832	1024 x 768	800 x 600	1600 x 1200	1280 x 1024	1120 x 832	1024 x 1 768	800 x 600	1024 x 768	640 x 480					
	Screen			32-bit Color				¥	16-bit Colo				cale	8-bit Grayscal	_		2-bit Grayscale	2-bit (					
NA #	റ്								ics Modes	Supported Graphics	Suppor								Graphics Architecture	CPU	Expansion CPU Bus	Model	Vendor

VENDOR	Vendor, manufacturer, or system provider.
MODEL	Model number or name of system or series of systems tested with NEXTSTEP.
EXPANSION BUS	Standard expansion buses supported. ISA, EISA, VL-Bus (VESA LocalBus), and PCI. Note: EISA systems are compatible with ISA add-on cards.
СРИ	Available CPUs (i486 or Pentium).
GRAPHICS ARCHITECTURE	Graphics architecture of the built-in or add-on graphics adapter. Includes interface (LocalBus, VL-Bus, PCI, EISA) and graphics controller. For systems tested with add-on graphics adapters, see "NEXTSTEP for Intel Processors Graphics" in this guide for additional information on supported adapters.
SUPPORTED GRAPHICS MODES	Supported resolution of the built-in or add-on graphics adapter. Gray areas indicate supported resolutions and number indicates video frame buffer size (in megabytes) required to support that resolution. In some cases, additional numbers indicate a specific supported resolution.
SoftPC FULL-SCREEN MODE	Insignia's SoftPC will run in a seperate window on all supported configurations. For maximum performance, you can flip SoftPC into full-screen mode.  S=Supported; this configuration has been verified by NeXT to support SoftPC in full-screen mode.  NS=Not supported; this configuration has been verified by NeXT not to support SoftPC in full-screen mode.  If this entry is left blank, NeXT has not verified this configuration to support SoftPC in full-screen mode.
NeXTANSWER DOCUMENT NUMBER	NeXTanswer Document Number providing detailed setup and configuration information.

In order to ensure the highest level of compatibility and support, NeXT has developed a process to comprehensively test specific PC-Compatible system configurations with NEXTSTEP.

- \* Each specific system configuration has been subjected to a suite of compatibility tests by the NeXT Quality Assurance group.
- \* A detailed NeXTanswer support document is available listing the specific configuration tested, and any setup information required to configure the system for NEXTSTEP.
- \* Because of the detailed information available to customers and NeXT's Customer Support personnel, NeXT delivers the best technical support on certified configurations.
- \* A system platform is loosely referred to as "certified" if it has one or more certified configurations, but all the benefits of certification are available only to users of the specific certified configuration.

\* Only the specific revisions of a system unit and its add-on cards listed in the NeXTanswer are certified. Always refer to the latest version of this guide, and the associated

for the latest information. \* NeXT certification does not necessarily mean "error free". Certified systems may contain detected or undetected compatibility problems, please refer to the NeXTanswer NeXTanswer to ensure the specific version of a system is fully certified by NeXT.

# Certified Desktop Systems PC MANUFACTURERS

			NEC	Intel	_	HEWLETT PACKARD		Elonex				DEC		СОМРАО	Canon	below 1,2	refer to footnote	Vendor
Express/II P60ST	PowerMate	lmage 4100es	lmage 466es	Premier	Vectra XP- Series	Vectra XM-Series	WS4100	WS466	LPx 466	MTE 466d2	MTE 466d2	XL 560	XE 560	XE 466	object.station 4.1			Model
EISA PCI		ISA VL-Bus	ISA VL-Bus	ISA PCI	ISA PCI	ISA			ISA	EISA	EISA	ISA PCI	ISA	ISA			C	Expansion
Pentium		486 DX4	486	Pentium	Pentium	486	486 DX4	486	486	486	486	Pentium	Pentium	486				CPU
Diamond Viper PCI 2MB VRAM		LocalBus ET4000 W32i	LocalBus ET4000 W32i	LocalBus ATI 68800	LocalBus S3-928	LocalBus S3-928			LocalBus S3-928	LocalBus S3-928	LocalBus S3-805	PCI Diamond Viper PCI	LocalBus QVision	LocalBus QVision	Wingine		n cincomic	Graphics
	Planned t	Planned		Planned			Planned	Planned t							Currently	640 x 480	2-bit Grayscale	
	Planned for certification by NeXT Computer, Inc.	Planned forcertification by NeXT Computer, Inc - problem identified with Triple Spin CDROM		Planned for certification by NeXT Computer, Inc			Planned for certification by NeXT Computer, Inc	Planned for certification by NeXT Computer, Inc							Currently undergoing certification by NeXT Computer, Inc	1024 x 768	yscale	
1MB	tion by Ne	ion by Ne	1MB	tion by Ne	2MB		tion by Ne	tion by Ne				1MB	2MB	2MB	g certificat	800 x 600		
1MB	XT Comp	XT Comp	1 MB	XT Comp	2MB	1MB	XT Comp	XT Comp	1MB	1MB	1MB	1MB	2MB	2MB	tion by Ne	1024 x 768	8-6	
	uter, Inc.	uter, Inc - p	2MB	uter, Inc.	2MB 1152x 819		uter, Inc	uter, Inc				1MB 1152x 900			XT Comp	1120 x 832	8-bit Grayscale	
2MB		oroblem id	2MB		2MB	2MB				2MB		2MB	2MB	2MB	ıter, Inc.	1280 x 1024	ē	
2MB		entified wi			2MB							2MB				1600 x 1200		
1MB		th Triple S	1MB		2MB	2MB				2MB	2MB	1MB	2MB	2MB		800 x 600		Support
2MB		pin CDRC	2MB interla ced		2MB	2MB				2MB		2MB	2MB	2MB		1024 x 768		Supported Graphics Modes
2MB 1152x 900		M			2MB 1152x 819							2MB 1152x 900				1120 x 832	16-bit Color	s Modes
					4MB					4MB						1280x 1024		
																1600 x 1200		
2MB					2MB							2MB	2MB	2MB		640x 480		
2MB					2MB					4 MB		2MB				800x 600		
					4MB					4MB						1024x 768	32-bit Color	
																1120x 832		
																1280x 1024		
S			S		S	S			S	S	S	NS	SN	S		Screen Mode	Full-	
1467			1466		1665	1464			1581	1459	1459	1559	1672	1671		NA#		

When considering a complete system or add-on card, please reter to any available NeX lanswers before purchasing equipment. To contact NeX lanswers, see page one (1) for instructions.

NEXTSTEP Hardware Compatibility Guide: Release 3.2 for Intel Processors

<sup>2.</sup> A SCSI adapter and SCSI CDROM are required for installation of NEXTSTEP.

# Certified Portable Systems

# TABLE LEGEND

Vendor	Model	Power Source	Built-in Panel Type	Built-in Expan- sion	Docking Station Expansion	СРИ	Max DISK/ RAM	Supp	orted Grap 2-bit Gr		ution	NeXTanswer Document Number
								Built-in Panel	Ex	ternal Moni	tor	
								640 x 480	640 x 480	800 x 600	1024 x 768	

VENDOR	Vendor, manufacturer, or system provider.
MODEL	Model number or name of system (or series of systems) tested with NEXTSTEP.
POWER SOURCE	Standard power source: AC or battery.
BUILT-IN PANEL TYPE	Built-in display panel technology: passive matrix, active matrix, or plasma.
BUILT-IN EXPANSION	For AC-powered portables: Fax/Modem, etc., + ISA or EISA slots. For battery-powered portables: Fax/Modem, PCMCIA, etc. This is reference information only, and does not represent supported devices.
DOCKING STATION EXPANSION	For battery-powered portables, ISA, Mass Storage (MS), Keyboard + Mouse + Monitor Port (KMM). NA indicates not applicable to AC-Powered portables.
CPU	Available CPUs (486 or Pentium).
MAX DISK/RAM	Maximum hard disk and RAM supported by this system. Contact manufacturer for current sizes supported.
SUPPORTED GRAPHICS RESOLUTION 2-BIT GRAYSCALE	Supported resolution of the built-in graphics adapter. Gray areas indicate supported resolutions. "Built-in Panel" indicates resolution supported by built-in graphics display panel. "External Monitor" indicates resolution supported by the built-in graphics adapter when connected to an external monitor.
NeXTANSWER DOCUMENT NUMBER	NeXTanswer Document Number providing detailed setup and configuration information
NEXTSTEP CERTIFIED SYSTEMS OVERVIEW	In order to ensure the highest level of compatibility and support, NeXT has developed a process to comprehensively test specific PC-Compatible system configurations with NEXTSTEP.
	* Each specific system configuration has been subjected to a suite of compatibility tests by the NeXT Quality Assurance group.
	* A detailed NeXTanswer support document is available listing the specific configuration tested, and any setup information required to configure the system for NEXTSTEP.
	* Because of the detailed information available to customers and NeXT's Customer Support personnel, NeXT delivers the best technical support on certified configurations.
	* A system platform is loosely referred to as "certified" if it has one or more certified configurations, but all the benefits of certification are available only to users of the specific certified configuration.
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# Certified Portable Systems

# PC MANUFACTURERS

Vendor  Refer to footnote below 1,2,3	Model	Power Source	Built-in Panel Type	Built-in Expan- sion	Docking Station Expansion	CPU	Max DISK/ RAM	Supp Built-in Panel	oorted Grap 2-bit Gr Ex			NeXTanswer Document Number
1,2,3								640 x 480	640 x 480	800 x 600	1024 x 768	
COMPAQ	LTE Lite4/25c	Battery	Active Matrix Color	Fax/Modem	ISA, MS, KMM	486SL	200/20					1472
NEC	UltraLite Versa C	Battery	Active Matrix Color	PCMCIA	ISA, MS, KMM	486SL	340/20					1477

# Listed Desktop Systems

	Vendor     Model     Expansion     CPU     Graphics       Bus     Architecture
2-bit Grayscale	Expansion CPU Graphics Bus Architecture
2-bit Grayscale	ansion CPU Graphics Architecture
2-bit Grayscale	Graphics Architecture
2-bit Grayscale	s
- T	Graphics Mo.
- T	Graphics Mo.
8-bit Grayscale 16-bit	Graphics Mo.
8-bit Grayscale 16-bit	Graphics Mo-
it Grayscale 16-bit	Graphics Mo.
le 16-bit	Graphics Mo.
16-bit	Graphics Mo.
16-bit	Graphics Mo
16-bit	phics Mo
함	0
Color	es
ω	
2-bit Color	
	Release Tested
	- se
	se SoftPC
	32-bit Color

VENDOR	Vendor, manufacturer, or system provider.
MODEL	Model number or name of system or series of systems tested with NEXTSTEP.
EXPANSION BUS	Standard expansion buses supported. ISA, EISA, VL-Bus (VESA LocalBus), and PCI. Note: EISA systems are compatible with ISA add-on cards.
CPU	Available CPUs (1486 or Pentium).
GRAPHICS ARCHITECTURE	Graphics architecture of the built-in or included graphics adapter. Includes interface (LocalBus, VL-Bus, PCI, EISA) and graphics controller. For systems tested with add-on graphics, see "Graphics" in this guide for choice of supported adapters.
GRAPHICS MODES	The resolution of the built-in or included graphics adapter. Gray areas indicate supported resolutions and number indicates video frame buffer size (in megabytes) required to support that resolution. "Built-in VGA" indicates resolution supported by built-in standard VGA graphics; higher resolution support may require an add-on graphics adapter.
RELEASE TESTED	The Release of NEXTSTEP for Intel Processors used to test this system.
SoftPC FULL-SCREEN MODE	Insignia's SoftPC will run in a seperate window on all supported configurations. For maximum performance, you can flip SoftPC into full-screen mode. S=Supported; This configuration has been reported to support SoftPC in full-screen mode. If this entry is left blank, this configuration has not been reported to support SoftPC in full-screen mode.
NA#	NeXTanswer Document Number providing detailed setup and configuration information.
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# Listed Desktop Systems PC MANUFACTURERS

<ol> <li>When considering a complete system or add-on card, please refer to any available NeX lanswers before purchasing equipment.</li> <li>To contact NeXTanswers, see page one (1) for instructions.</li> </ol>	StreetLight Software	LAN Computer Services, Inc.			SIOF	require an Adaptec 1542B in order to install NEXTSTEP 3.2	IBM Please note that	Dell			Data Net		CONTINENTAL COMPUTER	TSA	below 1,2	refer to footnote	Vendor
ng a complete sy Tanswers, see pa	ST486NX	Micro Intl. GA-486TA	JC/NX 480/2C	JC/NX 466/2N	JC/NX 466/2C		6472-xxx 6482-xxx 6492-xxx	OptiPlex MXV Series	Eclipse 850e	Eclipse 850e	Eclipse 535e	3800 NeXT ISA	3800 NeXT EISA	Premmia 4/d			Model
ystem or add- age one (1) fo	ISA VL-Bus	EISA VL-Bus	ISA VL-Bus	ISA VL-Bus	ISA VL-Bus	ISA VL-Bus	ISA VL-Bus	ISA VL-Bus	ISA PCI	ISA VL-Bus	ISA VL-Bus	ISA VL-Bus	EISA VL-Bus	ASIB		Ç	Expansion
on card, pi r instructio	486	486	486	486	486	486 DX/33	486 DX2	486	P54C	Pent.	486	486	486	486			СРИ
ease refer to an	ATI Graphics Ultra Pro	VL-Bus ATI Ultra Pro	C&T Wingine	C&T Wingine	C&T Wingine	VL-Bus Number 9 GXE -Level 12	VL-Bus Number 9 GXE- Level 12	Number 9 GXE Level 12	Diamond Stealth 64	Number 9 GXE Level 12	Number 9 GXE Level 11	VL-Bus ATI 68800	VL-Bus ATI 68800	LocalBus ATI 68800			Graphics Architecture
y avallable															640 x 480	2-bit Grayscale	
NexTansw															1024 x 768	yscale	
ers before															800 x 600		
purchasing															1024 x 768	8-bit	
) equipmen															1120 x 12 832 1	8-bit Grayscale	
															1280 x 16 1024 1:		
												1MB	1MB	1MB	1600 x 80 1200 6		
		2MB	2MB	2MB	2MB	2MB	2MB	2MB	4MB	2MB	2MB	B 2MB	B 2MB	В	800 x 102 600 70		Graphic
	2MB	B	В	8	В			В	В	В	В	В	В		1024 x 1120 x 768 832	16-bit Color	Graphics Modes
	ω														0 x 1280x1 82 024	Color	
															0x1 1600 x 4 1200		
															0 800 x		
															x 1024 x 768		
															x 1120 x 832	32-bit Color	
															x 1280 x 1024	olor	
															( 1600 x 1200		
	3.2	3.2	3.2	3.2	3.2	<u>3</u> 2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2			Release Tested
												S	Ø	S	Mode	Screen	
	1569	1663				1612	1611	1462	1673	1571	1572						NA#

<sup>2.</sup> A SCSI adapter and SCSI CDROM are required for installation of NEXTSTEP.

# Listed Portable Systems

# TABLE LEGEND

Vendor	Model	Power Source	Built-in Panel Type	Built-in Expan- sion	Docking Station Expansion	СРИ	Max DISK/ RAM		Graphics F 2-bit Gr	Resolution ayscale		NeXTanswer Document Number
								Built-in Panel	Ex	ternal Moni	tor	
								640 x 480	640 x 480	800 x 600	1024 x 768	

VENDOR	Vendor, manufacturer, or system provider.
MODEL	Model number or name of system (or series of systems) tested with NEXTSTEP.
POWER SOURCE	Standard power source: AC or battery.
BUILT-IN PANEL TYPE	Built-in display panel technology: passive matrix, active matrix, or plasma.
BUILT-IN EXPANSION	For AC-powered portables: Fax/Modem, etc., + ISA or EISA slots. For battery-powered portables: Fax/Modem, PCMCIA, etc. This is reference information only, and does not represent supported devices.
DOCKING STATION EXPANSION	For battery-powered portables, ISA, Mass Storage (MS), Keyboard + Mouse + Monitor Port (KMM). NA indicates not applicable to AC-Powered portables.
CPU	Available CPUs (i486 or Pentium).
MAX DISK/RAM	Maximum hard disk and RAM supported by this system. Contact manufacturer for current sizes supported.
GRAPHICS RESOLUTION 2-BIT GRAYSCALE	The resolution of the built-in graphics adapter. Gray areas indicate supported resolutions. "Built-in Panel" indicates resolution supported by built-in graphics display panel. "External Monitor" indicates resolution supported by the built-in graphics adapter when connected to an external monitor.
NEXTANSWER DOCUMENT NUMBER	NeXTanswer Document Number providing detail setup and configuration information.
NEXTSTEP LISTED SYSTEMS OVERVIEW	Listed systems are those whose NEXTSTEP compatibility has been reported by a third party, not determined by NeXT's Quality Assurance department. NeXT lists these systems for informational purposes only, as a convenience to our customers. NeXT does not warrant or monitor the accuracy or completeness of the information provided on Listed systems.

# Listed Portable Systems

# PC MANUFACTURERS

Vendor	Model	Power Source	Built-in Panel Type	Built-in Expan- sion	Docking Station Expansion	CPU	Max DISK/ RAM		Graphics I 2-bit Gr			NeXTanswer Document Number	
Refer to foot- note below 1,2,3					Expansion		IIAIII	Built-in Panel	External Monitor		itor		
1,2,0								640 x 480	640 x 480	800 x 600	1024 x 768		
AST	PowerExec 4SL	Battery	Passive Mono or Color	Fax/Modem	ISA, MS, KMM	486SL	200/32						
	PowerExec 4SL	Battery	Active Matrix Mono	Fax/Modem	ISA, MS, KMM	486SL	200/32						
COMPAQ	Portable 486/M	AC	Passive Matrix Mono	Fax/Modem EISA	NA	486	525/32						
	Portable 486/C	AC	Active Matrix Color	Fax/Modem EISA	NA	486	525/32						
NEC	Prospeed 486C	AC	Active Matrix Color	Fax/Modem EISA	NA	486SX	200/20						
	UltraLite Versa M	Battery	Passive Matrix Mono	PCMCIA	ISA, MS, KMM	486SL	340/20					1477	
TOSHIBA	T6400DX	AC	Passive Mono or Plasma	Fax/Modem ISA	NA	486	200/32					1116	
	T6400DXC	AC	Active Matrix Color	Fax/Modem ISA	NA	486	200/32					1116	
	T4400SX	Battery	Passive Mono or Plasma	Fax/Modem	ISA, MS, KMM	486SX	120/20						
	T4400SXC	Battery	Active Matrix Color	Fax/Modem	ISA, MS, KMM	486SX	120/20						
	T4400C	Battery	Active Matrix Color	Fax/Modem	ISA, MS, KMM	486	200/20						

When considering a complete system or add-on card, please refer to any available NeXTanswers before purchasing equipment.
 To contact NeXTanswers, see page one (1) for instructions.

<sup>2.</sup> A SCSI adapter and SCSI CDROM are required for installation of NEXTSTEP.

<sup>3.</sup> A docking station, SCSI adapter and SCSI CDROM are required for installation of NEXTSTEP.

### **NEXTSTEP GRAPHICS SYSTEM**

NEXTSTEP's Display Postscript graphics system supports such advanced capabilities as scalable fonts, unified imaging model for both screen display and printing, image transparency (also known as alpha channel), Pantone color matching, and Pixar Interactive Renderman 3D imaging.

NEXTSTEP's window server composites multiple layers of images, and allows the user to work with images of any quality with any supported imaging model, in other words users can work with a 32-bit color image even on a 2-bit grayscale system!

In order to provide these sophisticated capabilities NEXTSTEP requires a "workstation"-style linear frame buffer graphics system and a high performance 32-bit data path to the frame buffer. The number of colors or shades of gray, depth of transparency, etc., varies depending on the image model supported.

Imaging Model	Colors or Shades of Gray	Transparency (alpha channel)
32-bit color	24-bit (16M colors)	8-bit (256 levels)
16-bit color	12-bit (4,096 colors)	4-bit (16 levels)
8-bit grayscale	8-bit (256 shades of gray)	8-bit (256 levels)
2-bit grayscale	2-bit (4 shades of gray)	2-bit (4 levels)

### 32-BIT COLOR

**Overview** NEXTSTEP supports 32-bit color on a variety of graphics controller chips that support linear frame buffer access. Due to the performance requirements of 32-bit color, these graphics adapters must be connected via LocalBus, VESA LocalBus (VL-Bus), PCI or EISA. The ISA expansion bus does not provide the 32-bit data path, or adequate performance to support NEXTSTEP 32-bit color. Refer to the Desktop Systems and Add-on Graphics Adapter charts for specific adapter support.

### 16-BIT COLOR

**Overview** NEXTSTEP supports 16-bit color on a variety of graphics controller chips that support linear frame buffer access. Due to the performance requirements of 16-bit color, these graphics adapters must be connected via LocalBus, VESA LocalBus (VL-Bus), PCI or EISA. The ISA expansion bus does not provide the 32-bit data path, or adequate performance to support NEXTSTEP 16-bit color. Refer to the Desktop Systems and Add-on Graphics Adapter charts for specific adapter support.

### **8-BIT GRAYSCALE**

**Overview** NEXTSTEP supports 8-bit grayscale on a variety of graphics controller chips that support linear frame buffer access. Due to the performance requirements of 8-bit grayscale, these graphics adapters must be connected via LocalBus, VESA LocalBus (VL-Bus), PCI or EISA. The ISA expansion bus does not provide the 32-bit data path, or adequate performance to support NEXTSTEP 8-bit grayscale. Refer to the Desktop Systems and Add-on Graphics Adapter charts for specific adapter support.

### 2-BIT GRAYSCALE

**Overview** NeXT has developed a special driver that simulates the linear frame buffer required by NEXTSTEP's graphics system on segmented frame buffer graphics adapters such as standard VGA and Super VGA cards. This allows NEXTSTEP to support most standard VGA cards as well as certain Super VGA cards. Refer to the Desktop Systems and Add-on Graphics Adapter charts for specific adapter support. These graphics adapters can be connected via LocalBus, VESA LocalBus (VL-Bus), PCI, EISA or ISA.

# Other Devices and Adapters - Graphics

		Graphics Controller
		Vendor
		Model
		Expansion Bus/Interface
640 x 480	2-bit G	
1024 x 768	rayscale	
800 x 600		
1024 x 768	φ	
1120 x 832	8-bit Graysca	
1280 x 1024	ale	
1600 x 1200		
800 x 600		Gra
1024 x 768		<b>Graphics Resolution</b>
1120 x 832	16-bit Colo	lutions
1280 x 1024		
1600 x 1200		
800 x 600		
1024 x 768	ω	
1120 x 832	32-bit Color	
1280 x 1024		
1600 x 1200		
		Driver
		Avail
		NA #
		Appr.

GRAPHICS CONTROLLER	Graphics controller used by the add-on graphics adapter.
VENDOR	Vendor, manufacturer, or system provider of the graphics adapter.
MODEL	Model number or name of the add-on adapter.
EXPANSION BUS/ INTERFACE	Expansion Bus or Interface used by this graphics adapter: LocalBus, VL-Bus (VESA Standard LocalBus), PCI, ISA, or EISA.
GRAPHICS RESOLUTIONS	The resolution of the graphics adapter. Gray areas indicate supported resolutions and number indicates video frame buffer size (in megabytes) required to support that resolution.
DRIVER NAME	Name of graphics driver used by NEXTSTEP for Intel Processor' Configure application (Video Devices section).
Avail.	Availability indicates the current distribution status of any device driver. <i>CD-ROM</i> - indicates this driver is included on the latest release of NEXTSTEP for Intel Processors CD-ROM disc; <i>Planned</i> - Indicates this driver is planned by NeXT or a 3rd party (if available an approximate date is given for availability of the driver); <i>Avail.</i> - Indicates this driver is available from either NeXT or a 3rd party. For drivers available from NeXT, see page 1 for distribution of driver updates.
SOftPC FULL-SCREEN MODE	Insignia's SoftPC will run in a seperate window on all supported controllers. For maximum performance, you canflip SoftPC into full-screen mode. S=Supported; this controller has been verified by NeXT to support SoftPC in full-screen mode.  NS=Not supported; this controller has been verified by NeXT not to support SoftPC in full-screen mode.  If this entry is left blank, NeXT has not verified this controller to support SoftPC in full-screen mode.
NA #	NeXTanswer Document Number providing detailed setup and configuration information.
APPROVED	An add-on adapter or peripheral is said to be <i>approved</i> when it has been tested as a component of one or more NeXT certified configurations. Note that one piece of approved hardware may be incompatible with another; to ensure compatibility, chose a certified configuration and review any available NeXTanswers.

# Other Devices and Adapters - Graphics GRAPHICS ADAPTERS

S3-805	STANDARD VGA	TSENG LABS ET-4000 W32i	TSENG LABS ET-4000 AX	JAWS	Cirrus Logic 5434	CIRRUS LOGIC GD542X		COMPAQ QVISION	Canon	ATI 88800GX		ATI 68800 AX		АП 68800 Rev 3, 6		see loomote l	Graphics Controller
	) VGA	BS 32i	BS		c 5434	ogic				×		*		%ev 3, 6		_	ntroller
miro Computer Products AG	Various	Several		DELL		STB	Compaq	Compaq	Canon	ATI	ATI	ATI	ATI	ATI			Vendor
miro Crystal 8S	Various	Several		450DE/2 DGX		Horizon	QVision 1280/E	QVision 1024/E	Wingine		Intel Premier on-board		Graphics UltraPro EISA	Graphics UltraPro VL-Bus			Model
VL-Bus ISA	ISA	VL-Bus	ISA	LocalBus		ISA	EISA	EISA	LocalBus	VL Bus	LocalBus	VL-Bus, PCI	EISA	VL-Bus		Interface	Expansion Bus /
		See rea			See rea				See rea	See rea		See rea			640 x 480	2-bit Grayscale	
		adme file	.5 MB		adme file	.5 MB			adme file	adme file		adme file			1024 × 768	ayscale	
1MB		included v			included v				included v	included v	1MB	included v			800 x		
8MI		vith the dr			vith the dr		1MB	1MB	vith the dr	vith the dr	1MB	vith the dr	1MB	1MB	1024 x 768	œ.	
		ver or a fu			ver or a fu				ver or a fu	ver or a fu	1MB	ver or a fu			1120 x 832	8-bit Grayscale	
		See readme file included with the driver or a future version of this guide for supported modes.			See readme file included with the driver or a future version of this guide for supported modes.		2MB		See readme file included with the driver or a future version of this guide for supported modes.	See readme file included with the driver or a future version of this guide for supported modes.	2MB	See readme file included with the driver or a future version of this guide for supported modes	2MB	2MB	1280 x 1024	ē	
		on of this g			n of this g				on of this g	on of this g		on of this g			1600 x 1200		
1MB		uide for su			uide for su		1MB	1MB	luide for su	uide for su	1MB	uide for su	1MB	1MB	800 x 600		Gra
		ipported m			ıpported m		2MB		ipported m	ipported m	2MB	ipported m	2MB	2MB	1024 x 768	_	Graphics Resolutions
		nodes.		2MB	nodes.				nodes.	nodes.	2MB	nodes.	2MB Rev 6 only	2MB Rev 6 only	1120 x 832	16-bit Color	lutions
			•												1280 x 1024		
															1600 x 1200		
							2 MB 640 x 480								800 x 600		
															1024 x 768		
															1120 x 832	32-bit Color	
															1280 x 1024	-	
															1600 x 1200		
S3	Default VGA Adapter	Tseng Labs ET4000 W32i	Tseng Labs ET- 4000	Dell Jaws DGX	Planned	Cirrus Logic GDX542X	Compaq Qvision Update	Compaq Qvision	Canon object.stt ion Display driver		Intel Premier Display Driver		ATI Ultra Pro	ATI Ultra Pro			Driver Name
CD-ROM	CD-ROM	Beta Avail.	CD-ROM	CD-ROM		CD-ROM	Nxt Ans.	CD-ROM	ВЕТА	Planned Q3 94	BETA Avail.	Planned Q394	CD-ROM	CD-ROM			Avail.
		ø		S		v							ø	s	Mode	Screen	SoftPC
1485		1621 1622					1590 1591		1632		1664		1122	1122			NA#
	YES	ВЕТА	YES	YES		YES	YES	YES	вета	YES	BETA	YES	YES	YES			Appr.

When considering a complete system or add-on card, please refer to any available NeXTanswers before purchasing equipment. NEXTSTEP Hardware Compatibility Guide: Release 3.2 for Intel Processors

# GRAPHICS ADAPTERS Other Devices and Adapters - Graphics (continued)

	see loomore I	Graphics Controller
		Vendor
		Model
	Interface	Expansion Bus /
640 x 480	2-bit Grayscal	
1024 × 768	rayscale	
800 x		
1024 x 768	φ	
1120 x 832	8-bit Grayscal	
1024 x 1120 x 1280 x 1600 x 768 832 1024 1200	ale	
1600 x 1200		
800 x		Gra
1024 x 768		Graphics Resolutions
1120 x 832	16-bit Color	lutions
1280 x 1024		
1600 x 1200		
640x 480		
800x		
1024x 768	32-bit Color	
1120x 832	-	
1280x 1024		
		Driver Name
		Avail.
Mode	Screen	SoftPC
		NA #
		Appr.

Weitek Power9100		Weitek Power 9000		S3-964						S3-928
Diamond	Genoa	Diamond	Number Nine	Diamond	Ŧ	miro Computer Products AG	ELSA GmbH 1-800- 272-ELSA	STB	Number Nine	Number Nine
Viper Pro	VideoBlitz 9200VL	Viper-VL	GXE 64 Pro	Stealth 64	Vectra XP-Series	miro Crystal 32S	Winner 2000PRO	Pegasus- VL	GXE-VL Level 14, 16	GXE-VL Level 11 or 12
PCI	VL-Bus	VL-Bus, PCI	PCI	VL-Bus PCI	Local Bus ISA PCI	PCI VL-Bus EISA	PCI VL-Bus	VL-Bus	VL-Bus	VL-Bus
See re								See re	See re	
eadme f								eadme f	eadme fi	
See readme file included with the driver or a future version of this guide for supported modes	1MB	1MB	2MB 4MB	2MB 4MB	2MB	1MB	2MB 4MB	See readme file included with the driver or a tuture version of this guide for supported modes	See readme file included with the driver or a future version of this guide for supported modes.	1 MB
vith the d	1MB	1MB	2MB 4MB	2MB 4MB	2MB	1MB	2MB 4MB	vith the d	vith the d	1 MB
river or a fut	1MB 1152x 900	1MB 1152x 900	2MB 4MB 1152x 864	2MB 4MB 1152x 864	2MB 1152x 819	2MB 1152 x 864	2MB 4MB 1152x 864	river or a fut	river or a fut	2 MB 1152 x 819
ture versi	2MB	2MB	2MB 4MB	2MB 4MB	2MB	2MB	2MB 4MB	ture versi	ture versi	2 MB
on of this	2MB	2MB (PCI only)	2MB 4MB	2MB 4MB	2MB	2MB 1408 x 1024	4MB	on of this	on of this	
guide for si	1MB	1MB	2MB 4MB	2MB 4MB	2MB	1MB	4MB	guide for si	guide for si	1 MB
upported n	2MB	2MB	2MB 4MB	2MB 4MB	2MB	2MB	2MB 4MB	upported n	upported n	2 MB
nodes.	2MB 1152x 900	2MB 1152x 900	2MB 4MB 1152x 864	2MB 4MB 1152x 864	2MB 1152x 819	2MB 1152 x 864	2MB 4MB 1152x 864	nodes.	nodes.	
			4MB	4MB	4MB	4MB	4MB			
			4MB	4MB		4MB 1408 x 1024	4MB			
	2MB	2MB	2MB 4MB	2MB 4MB	2MB					
	2MB	2MB	2MB 4MB	2MB 4MB	2MB	4MB	2MB 4MB			
			4MB	4MB	4MB		4MB			
			4MB 1152 x864	4MB 1152 x864			4MB 1152x 864			
	Weitek P9000	Weitek P9000	Number9 GXE64	Diamond Stealth64	HPXP Display	miro928	ELSA_ WINNER			#9GXE
Planned Q3 94	1557, 1558	1557, 1558	Nxt Ans.	NXT Ans.	NXTAns	miro Comp. Prod. AG	GMbH	Beta Avail.	Beta Avail.	CD-ROM
	NS	NS.								S
	1560	1573	1586 1587	1584 1585	1588 1589	1486	1656 1657 1658 1659 1660	1619 1620	1617 1618	
		YES	YES	YES	YES			ВЕТА	BETA	YES

## **ADDITIONAL DEVICE SUPPORT**

### **NEXTSTEP DEVICE SUPPORT**

	NEXTSTEP supports a variety of additional devices and add-on adapters.
DISK INTERFACES	Both IDE and several SCSI hard disk interfaces are supported.
POINTING DEVICES	Microsoft®- and Logitec®-compatible PS/2® and serial mice. Logitec bus mouse.
PRINTERS	Any PostScript printer connected via a serial or parallel port, including the NeXT Color Printer (connected via a SCSI port). NeXT recommends PostScript printers with PostScript Level II for proper color support.
NETWORKING	Several Ethernet and Token Ring networking adapters are supported. A networking adapter is optional.
SOUND	NEXTSTEP can support certain PC sound cards for both playback and recording. A sound card is optional.
ADDITIONAL DEVICES	Other popular PC peripherals such as FAX/Modems are supported.

### **DRIVERKIT**

NEXTSTEP for Intel Processors incorporates a newly developed object-oriented driver architecture called DriverKit. DriverKit allows the quick development of device drivers for new peripherals and add-on cards for Intel-based PCs running NEXTSTEP. DriverKit's architecture allows drivers to be loaded at run-time, thereby allowing users to add additional cards or devices to their systems without re-installing the main operating system. Loadable device drivers also allow NeXT and third parties to easily distribute additional drivers as they become available. In order to promote the availability of drivers for NEXTSTEP, NeXT includes the Driver Kit development tools, and source code examples of several drivers on the NEXTSTEP Developer CDROM. NeXT is actively working with hardware manufacturers and third parties to provide additional drivers for NEXTSTEP for Intel Processors.

Developers interested in becoming a registered driver developer, should contact NeXT Developer Relations (1-800-TRY-NeXT) and join the registered developer program.

# ADDITIONAL DEVICE SUPPORT LEGEND

Device Type	Vendor	Model	Expansion Bus/Interface	Features	Driver Name	Avail.	NA#	Approved

DEVICE TYPE	Class of device or adapter supported.
VENDOR	Vendor, manufacturer, or system provider of the supported device or adapter.
MODEL	Model number or name of the supported device or adapter.
EXPANSION BUS/ INTERFACE	Expansion Bus or Interface used by this device: CPU Board (built onto the systems CPU board), LocalBus, VL-Bus (VESA Standard LocalBus), PCI, ISA, or EISA. Note: EISA expansion bus slots are compatible with ISA adapters.
FEATURES	Features of the device, or class of devices. This includes additional capabilities and/or protocols supported by this device or adapter. It also includes any limitations of the use of the device.
DRIVER NAME	Name of driver used by NEXTSTEP's Configure application.
NA #	NeXTAnswer Document Number providing detailed setup and configuration information.
APPROVED	An add-on adapter or peripheral is said to be <i>approved</i> when it has been tested as a component of one or more NeXT certified configurations. Note that one piece of approved hardware may be incompatible with another; to ensure compatibility, chose a certified configuration and review any available NeXTAnswers.

# ADDITIONAL DEVICE SUPPORT PRODUCTS

Device Type	Vendor	Model	Expansion Bus/Interface	Features	Driver Name	Avail.	NA#	Approved
refer to footnote below			Businenace					
FLOPPY DISK		3.5in 1.44MB Floppy			Floppy Disk Controller	CD-ROM		
IDE HARD DISK INTERFACE		IDE			IDE Disk Controller	CD-ROM		
SCSI HARD DISK INTERFACE	Adaptec	1540 B, C or CF	ISA		Adaptec 1542B	CD-ROM 1520, 1521- update	1107 - B 1108 - C	YES
		1542 B, C or CF	ISA	Includes a floppy controller.	Adaptec 1542B	CD-ROM 1520, 1521- update	1107 - B 1108 - C	YES
		1740	EISA	Supported in 1540 compatibility mode only	Adaptec 1542B	CD-ROM 1520, 1521- update	1475	YES
		1742	EISA	Includes a floppy controller. Supported in 1540 compatability mode only	Adaptec 1542B	CD-ROM 1520, 1521- update	1475	YES
		274x	EISA	The 2742 has a floppy drive interface	Adaptec 2740 Adaptec 2742 (floppy)	Planned Q3 94		
		284x	VL-Bus		Adaptec 2840	Planned		
		2940	PCI		Adaptec 2940	Planned Q3		
		6x60	EISA		Adaptec 6x60	Planned Q3		
		7770	EISA		Adaptec 7770	Planned		
	Bus Logic	542B	ISA		Adaptec 1542B	CD-ROM 1520, 1521- update	1362	YES
		747\$	EISA		Adaptec 1542B	CD-ROM 1520, 1521- update	1118	YES
		445S	VL-Bus		Adaptec 1542B	1520, 1521- update		YES
		44xC	VL-Bus		Bus Logic 44xC	Planned Q3 Beta Avail.	TBD	ВЕТА

<sup>1.</sup> When considering a complete system or add-on card, please refer to any available NeXTanswers before purchasing equipment. Note: Floppy controllers on add-on SCSI adapters are not currently supported.

# ADDITIONAL DEVICE SUPPORT PRODUCTS (CONTINUED)

Device Type	Vendor	Model	Expansion Bus/Interface	Features	Driver Name	Avail.	NA#	Approved
refer to footnote below 1								
DPT		2021/90	ISA	1MB-64MB Cache upgradable.	DPT 2012-B EISA	CD-ROM	1476	YES
		2021/95	ISA	1MB-64MB Cache upgradable. Includes a floppy controller.	DPT 2012-B EISA	CD-ROM	1476	YES
		2012/90	EISA	512K-16.5MB Cache upgradable.	DPT 2012-B EISA	CD-ROM	1358	YES
		2012/95	EISA	512K-16.5MB Cache upgradable. Includes a floppy controller.	DPT 2012-B EISA	CD-ROM	1358	YES
		2022 /90	EISA	1MB-64MB Cache upgradable.	DPT 2012-B EISA	CD-ROM	1457	YES
		2022 /95	EISA	1MB-64MB Cache upgradable. Includes a floppy controller.	DPT 2012-B EISA	CD-ROM	1457	YES
		2122/90	EISA	1MB-64MB Cache upgradable	DPT 2012-B EISA	CD-ROM		YES
		2122 /95	EISA	512K-16.5MB Cache upgradable. Includes a floppy controller.	DPT 2012-B EISA	CD-ROM		YES
		2000 Series Driver Update	EISA		DPT 2000	Nxt. Ans.	1625 1626	YES
SCSI TAPE		SCSI Tape			SCSI Tape Driver	CD-ROM		
PARALLEL PORT		Standard Parallel Port			On-Board Parallel Port	CD-ROM	1330	
SERIAL PORTS		Standard Serial Ports		Supports COM1 & COM2	On-Board Serial Ports	CD-ROM	1208	
LOCAL AREA NETWORK ADAPTERS	3COM	EtherLink III (3C509)	ISA	Ethernet Coax Twisted Pair - planned Q2	3COM EtherLink III Ethernet Adapter	CD-ROM	1482	YES
		EtherLink III(3C579)	EISA	Ethernet Coax Twisted pair	3COM EtherLink III Ethernet Adapter	Nxt. Ans	1653, 1654	YES
	Cogent	EM935, EM932	EISA	thick coax and thin coax, and thick coax and twisted pair cabling	Cogent EM935, EM932	NXT Ans	1564, 1565	YES
		EM960	PCI	32-bit	CogentEM960	Beta Avail.	1667,1668	BETA
	SMC	EtherCard PLUS Elite 16 (8013)	ISA	Ethernet Coax or Twisted Pair	SMC 16 Ethernet Adapter	CD-ROM	1110	YES
		SMC EtherCard Elilte Ultra16	ISA			Planned Q3		
	Canon		Local Bus		Canon object.station	Beta Avail.	1633	BETA
	HP	Vectra XP and XM	Local Bus	HP Vectra XP and XM support of AMD 79C960 chipset	HPVectra_XM_XP_L ANDriver	NXT Ans	1623, 1624	YES

<sup>1.</sup> When considering a complete system or add-on card, please refer to any available NeXTanswers before purchasing equipment.

Device Type	Vendor	Model	Expansion Bus/Interface	Features	Driver Name	Avail.	NA#	Approved
refer to footnote below								
	Intel	EtherExpress 16 (TP, Coax or Combo)	ISA	Ethernet Coax or Twisted Pair	Intel EtherExpress Ethernet Adapter	CD-ROM	1206	YES
		Intel TokenExpress ISA Token_Ring Adapter Update	ISA	Token Ring	Intel TokenExpress ISA Token Ring Adapter UPDATE	NXTAns	1613, 1614	YES
		Intel Ether Express Flash 32	EISA	82596 32-bit LAN Coprocessor		Planned		
		Intel EtherExpress PRO	ISA	82595-based 16-bit ISA adapter		Planned		
		Intel EtherExpress PRO/ 100	EISA PCI	82596-based 32-bit EISA and PCI adapter				
	IBM	Token-Ring 16/4 Adapter	ISA	16/4 Mbps 8 bit I/O 64k Buffer Share RAM	IBM Token-Ring 16/4 Adapter	NXT Ans	1515, 1523, 1524	YES
POINTING DEVICES	Microsoft	MS Mouse or Compatible	Serial or PS/2 Mouse Port		Serial Mouse or PS/ 2-Style Mouse	CD-ROM	1360	YES
	Logitech	Mouse Man (Right or Left)	Serial or PS/2 Mouse Port		Serial Mouse or PS/ 2-Style Mouse	CD-ROM	1360	YES
		Mouse Man Bus	Bus Mouse Adapter		Bus Mouse	CD-ROM	1360	YES
		PS2 Keyboard and Mouse		UPDATE to support newer Logitech Mouse		ВЕТА	1669 1670	ВЕТА
AUDIO DEVICES	Media Vision	ProAudio Spectrum 16	ISA	Up to CD Quality Stereo Record & Playback	ProAudioSpectrum 16	CD-ROM	1158	YES
		Pro Studio 16	ISA	Up to CD Quality Stereo Record & Playback	ProAudioSpectrum 16	CD-ROM		YES
		Jazz				Planned		
	Creative Labs	SoundBlaster 16	EISA, ISA		SoundBlaster 16	Planned Q3 94		YES
	Intel	GX/Professional CPU- Board Audio Support	CPU Board	Up to CD Quality Stereo Record & Playback	IntelGXAudio	Nxt Ans. UPDATE	1651, 1652	YES
	Compaq	Business Audio	CPU Board	Up to CD Quality Stereo Record & Playback		CD-ROM		YES
	Microsoft	Sound System	ISA	Up to CD Quality Stereo Record & Playback		CD-ROM	1471	YES
	Various	Standard PC Speaker Support	CPU Board	System Audio Alerts only	System Beep Driver	CD-ROM		YES
PRINTERS	NeXT	NeXT Color Printer	SCSI					YES
	Various	Standard Adobe PostScript Printers	Serial or Parallel					
CD-ROM DRIVES	NEC	CDR-74	External					YES
	NeXT	Sony-541	External					YES
TAPE BACKUPS	Archive	Viper 150		QIC, 512-byte blocks				YES
	Archive	Python		DAT, 512-byte blocks				YES