

apple.eps ➤ **Hardware Compatibility Guide**

NEXTSTEP/OPENSTEP for Mach Release 4.x for Intel Processors

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This document describes in general terms the types of PC-compatible hardware that is supported by OPENSTEP for Mach Release 4.x for Intel Processors.

This guide is divided into six sections:

-General System Requirements*
-Display Options*
-Networking Options*
-SCSI Options*
-Sound Options*
-System Options*

In addition to this guide, please refer to NeXTanswers, Apple's free information retrieval system. All the drivers in the Guide have corresponding NeXTanswer numbered documents with more detailed information.

NeXTanswers[™]: this guide and many other kinds of information are available from NeXTanswers, Apple's free information-retrieval system. For NeXTanswers documents by fax, call (415) 780-3990 from a touch-tone phone. By Internet mail, send email to nextanswers@enterprise.apple.com with the two-word subject: INDEX HELP. NeXTanswers is also available by World Wide Web at <http://enterprise.apple.com/>, FTP at [enterprise.apple.com](ftp://enterprise.apple.com).

Driver Overviews: Driver Overview files, found in NeXTanswers, are documents describing in detail supported features of specific drivers. They include supported adaptors, supported features of adaptors, and any known problems Apple's Quality Assurance team or Apple Enterprise Technical Support have encountered. Please refer to these more detailed overviews prior to making purchasing decisions to assure compatibility of your system.

Driver Updates: Apple and third parties continuously develop and enhance drivers for OPENSTEP for Mach. New drivers or updates to existing drivers can be downloaded from the Internet via email, ftp, WWW or from our BBS. NeXTanswers provides an easy method to obtain drivers by email. As described above, follow the instructions for obtaining a document via return email. (Note: You must be able to receive NeXTMail or MIME in order to receive a driver through email.) To obtain drivers by ftp, use ftp to access [enterprise.apple.com](ftp://enterprise.apple.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/NEXTSTEP/Intel_Configuration_Information/Drivers/. Be sure to also download 1824_Installing_Drivers_Overview.rtf for detailed instructions on how to decompress and install the driver once you have downloaded it. If you have any further questions about how to obtain a Driver Update contact Apple Enterprise Technical Support at 1-800-955-NeXT.

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

GENERAL SYSTEM REQUIREMENTS

CPU

486, Pentium[®] or Pentium[®] Pro based PC compatible computer. OPENSTEP for Mach requires a floating-point coprocessor. Systems using processors without a built-in floating-point coprocessor require an add-on floating-point coprocessor, or upgrade to a 486, Pentium or Pentium Pro with built-in floating-point support.

EXPANSION BUS

ISA, EISA, VL-Bus or PCI expansion bus.

AVAILABLE HARD DISK SPACE

OPENSTEP for Mach supports multiple partitioned hard disks, allowing the user to install and boot several operating systems from the same local hard disk. Larger local disks are recommended for stand-alone systems or for systems with a local non-OPENSTEP for Mach partition.

User Environment: 120 MB partition minimum, 200 MB recommended for stand-alone systems.

User + Developer: Environments: 330 MB partition minimum, 400 MB recommended.

RAM REQUIREMENTS

RAM requirements vary depending upon your selection of graphics adapter and imaging model.

32-bit color: 24 MB RAM Minimum, 32 MB RAM Recommended

16-bit color: 16 MB RAM Minimum, 24 MB RAM Recommended

8-bit color/grayscale: 12 MB RAM Minimum, 16 MB RAM Recommended

2-bit grayscale: 8 MB RAM Minimum, 12 MB RAM Recommended

GRAPHICS ADAPTERS

See the "Display Options" section in this guide for details on graphics support.

DISK INTERFACES

IDE and several SCSI hard disk interfaces are supported.

Note: A SCSI adapter and SCSI CDROM, or a supported network adapter and properly configured network installation host are required for installation of OPENSTEP for Mach.

Note: Some EIDE ATAPI CD-ROM drives are now supported for installation of OPENSTEP for Mach. See NeXTanswer 1933_EIDE_and_ATAPI_CDROM_Support_in_NEXTSTEP_3.3.rtf for details.

POINTING DEVICES

Microsoft™ and Logitech™ compatible PS/2™ and serial mice. Logitech bus mouse.

PRINTERS

Any PostScript printer connected via a serial port, parallel port or network including the NeXT Color Printer (connected via a SCSI port). Apple Computer recommends color 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

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

DISPLAY OPTIONS

Key: Display Driver Name

Location of detailed driver overview; Location of drivers

Adaptors or Chipsets that work with this driver

Integrated systems that work with this driver

ATI

Overview is NeXTanswer #2193; Driver available

ATI Graphics Ultra Pro (EISA, ATI 68875 RAMDAC)

ATI Graphics Ultra Pro (EISA, TI 34075 RAMDAC)

ATI Graphics Ultra Pro (VL-Bus, ATI 68875 RAMDAC)

Intel GX/Pro (Custom LB, onboard ATI, TI 34075 RAMDAC)

Data General Dasher DE2 (Custom LB, TI 34075 RAMDAC)

AST Premmia 4D (Custom LB, onboard ATI, BT 481 RAMDAC)

Gateway V Series (VL-Bus, ATI 68875 RAMDAC)

ATI Mach32

Overview is NeXTanswer #2196; Driver available on NEXTSTEP CDROM

ATI Graphics Ultra Pro - EISA (with 2MB VRAM)

ATI Graphics Ultra Pro - PCI (with 2MB VRAM)

ATI Graphics Ultra Pro - VL-Bus (with 2MB VRAM)

ATI Graphics Ultra Pro XLR - VL-Bus (with 2MB DRAM) - not tested, but should work

ATI Graphics Ultra Pro XLR - PCI (with 2MB DRAM) - not tested, but should work

Intel GX/Pro (Custom LocalBus, onboard ATI, TI 34075 RAMDAC)

Data General Dasher DE2 (Custom LocalBus, TI 34075 RAMDAC)

AST Premmia 4D (Custom LocalBus, onboard ATI, BT 481 RAMDAC)

Gateway V Series (VESA LocalBus, ATI 68875 RAMDAC)

ATI Mach64

Overview is NeXTanswer #2199; Driver available on NEXTSTEP CDROM

ATI Graphics Ultra Pro Turbo (PCI, with 2MB VRAM)

ATI Graphics Ultra Pro Turbo (PCI, with 2MB DRAM)

ATI Graphics Ultra Pro Turbo (PCI, with 4MB VRAM)

ATI Graphics Ultra Pro Turbo (PCI, with 4MB DRAM)

ATI Graphics Ultra Pro Turbo (VL-Bus, with 4MB VRAM)
ATI Graphics Ultra Pro Turbo (VL-Bus, with 4MB DRAM)
AT&T Globalyst 600

ATI Rage

Overview is NeXTanswer #2546; Driver available on NEXTSTEP CDROM and as beta from NeXTanswers

ATI All-In-Wonder
ATI 3D Pro Turbo
ATI 3D Pro Turbo PC2TV
ATI 3D Xpression+
ATI 3D Xpression+ PC2TV
ATI XPERT @ Work
ATI XPERT @ Play

Canon object.station41 Display

Overview is NeXTanswer #2214; Driver available on NEXTSTEP CDROM
(Integrated)

Canon object.station 41

Chips & Technologies Wingine

Overview is NeXTanswer #2220; Driver available on NEXTSTEP CDROM
(Integrated)

Epson Wingine
LGI Wingine

Chips & Technologies Wingine 64300

Overview is NeXTanswer #2223; Driver available on NEXTSTEP CDROM
(Integrated)

NEC Powermate 466D

Cirrus Logic GD542X Family

Overview is NeXTanswer #2226; Driver available on NEXTSTEP CDROM
(Integrated, ISA)

Cirrus Logic GD5434

Overview is NeXTanswer #2229; Driver available on NEXTSTEP CDROM and from NeXTanswers

Diamond SpeedStar 64 (PCI)
Orchid Kelvin 64 (with GD5434)
Elonex WS4100
Intel Premier (with integrated GD5434)
HP Vectra XM Series3 (not tested but reported to work)

Compaq QVision

Overview is NeXTanswer #2241; Driver available on NEXTSTEP CDROM

QVision 1024/E EISA (QV30E, QV32E)
QVision 1280/E EISA (QV32E)
QVision 1280/P PCI (QV35P, QV64P)
Compaq Deskpro XE560
Compaq Deskpro XE466
Compaq Deskpro 5100

Dell DGX (JAWS)

Overview is NeXTanswer #2250; Driver available on NEXTSTEP CDROM
(Integrated)

Dell 450DE/2 DGX

Diamond Stealth

Overview is NeXTanswer #2253; Driver available on NEXTSTEP CDROM and from NeXTanswers

Diamond Stealth 64 DRAM PCI-Bus Display Adapter
Diamond Stealth 64 DRAM VL-Bus Display Adapter
Diamond Stealth 64 Video PCI-Bus Display Adapter
Diamond Stealth 64 Video VL-Bus Display Adapter
Diamond Stealth 64 VRAM PCI-Bus Display Adapter
Diamond Stealth SE PCI-Bus Display Adapter
Diamond Stealth SE VL-Bus Display Adapter
Diamond Stealth 64 DRAM T PCI-Bus Display Adapter
Diamond Stealth 64 DRAM T VL-Bus Display Adapter
Diamond Stealth 64 Video VRAM VL-Bus Display Adapter
Diamond Stealth 64 Video 3200 VL-Bus Display Adapter
Diamond Stealth 64 Video 2121XL DRAM PCI-Bus Display Adapter
Diamond Stealth 64 Video 3000 VRAM PCI-Bus Display Adapter
Diamond Stealth 3D 2000 PCI-Bus Display Adapter
Diamond Stealth 3D 3000 PCI-Bus Display Adapter

Diamond Stealth64

Overview is NeXTanswer #2256; Driver available on NEXTSTEP CDROM

Diamond Stealth 64 (PCI, 4MB VRAM)
Diamond Stealth 64 (PCI, 2MB VRAM)
Diamond Stealth 64 (VL-Bus, 4MB VRAM)
Diamond Stealth 64 (VL-Bus, 2MB VRAM)

HP Vectra XP

Overview is NeXTanswer #2286; Driver available on NEXTSTEP CDROM
(Integrated)

HP Vectra XP (4MB VRAM)
HP Vectra XP (2MB VRAM)

HP Vectra XU Display

Overview is NeXTanswer #2289; Driver available on NEXTSTEP CDROM
(Integrated)

HP Vectra/XU S3/864 on-board video

IBM ThinkPad 755CX Display

Overview is NeXTanswer #2292; Driver available on NEXTSTEP CDROM
(Integrated)

IBM ThinkPad 755CX

IBM ThinkPad 760CD Display

Overview is NeXTanswer #2295; Driver available on NEXTSTEP CDROM and as beta from NeXTanswers
(Integrated)

IBM ThinkPad 760CD

IBM ThinkPad 760ED Display

Overview is NeXTanswer #2507; Driver available from NeXTanswers
(Integrated)

IBM ThinkPad 760E
IBM ThinkPad 760ED
IBM ThinkPad 560

Matrox MGA Millennium

Overview is NeXTanswer #2334; Driver available on NEXTSTEP CDROM, from NeXTanswers and as beta from NeXTanswers

Matrox MGA Millennium
Matrox MGA Millennium II
Matrox MGA Millennium II AGP

Matrox Mystique
Matrox Mystique 220
Matrox Mystique 220 AGP

Number Nine GXE Family

Overview is NeXTanswer #2343; Driver available

#9GXE-VL Level 10 (VL-Bus, 1MB VRAM) - not tested, but should work
#9GXE-VL Level 11 (VL-Bus, 2MB VRAM)
#9GXE-VL Level 12 (VL-Bus, 2MB VRAM) - not tested, but should work
#9GXE-VL Level 14 (VL-Bus, 4MB VRAM) - not tested, but should work
#9GXE-VL Level 16 (VL-Bus, 4MB VRAM) - not tested, but should work
#9GXE-PCI Level 10 (PCI, 1MB VRAM) - not tested, but should work
#9GXE-PCI Level 12 (PCI, 2MB VRAM)

Number Nine GXE64 Pro

Overview is NeXTanswer #2346; Driver available on NEXTSTEP CDROM

Number 9 GXE 64 Pro (PCI, 4MB VRAM)
Number 9 GXE 64 Pro (PCI, 2MB VRAM)
Number 9 GXE 64 Pro-1600 (PCI, 4MB VRAM, 200Mhz RAMDAC) - not tested, but should work
Number 9 GXE 64 Pro (VL-Bus, 4MB VRAM)
Number 9 GXE 64 Pro (VL-Bus, 2MB VRAM)
Number 9 GXE 64 Pro-1600 (VL-Bus, 4MB VRAM, 200Mhz RAMDAC) - not tested, but should work

Number Nine Imagine128

Overview is NeXTanswer #2349; Driver available on NEXTSTEP CDROM

Number9 Imagine 128 (PCI) (NB128-V2-P)

Number Nine Imagine128 Series 2

Overview is NeXTanswer #2537; Driver available from NeXTanswers

Number9 Imagine 128 Series 2 (4MB) (90-228120-000)
Number9 Imagine 128 Series 2 (8MB) (90-228130)
Number9 Revolution 3D (4MB)
Number9 Revolution 3D (8MB)

Number Nine Motion331

Overview is NeXTanswer #2352; Driver available on NEXTSTEP CDROM

Number Nine 9FX Motion 331 1MB PCI (NB9-FX1-331-1P)
Number Nine 9FX Motion 331 2MB PCI (NB9-FX1-331-2P)

Number Nine Motion771

Overview is NeXTanswer #2355; Driver available on NEXTSTEP CDROM

Number Nine 9FX Motion 771 2MB PCI (NB9FX2-771-2P)
Number Nine 9FX Motion 771 4MB PCI (NB9FX2-771-4P)
Number Nine 9FX Motion 771 2MB VL-Bus (NB9FX2-771-2VL)
Number Nine 9FX Motion 771 4MB VL-Bus (NB9FX2-771-4VL)

S3 805 / 928

Overview is NeXTanswer #2379; Driver available on NEXTSTEP CDROM

(Integrated, VL-Bus)
IBM PS/ValuePoint
Hewlett-Packard Vectra XM
DECpc 466d2 MTE

S3 Generic

Overview is NeXTanswer #2382; Driver available on NEXTSTEP CDROM and from NeXTanswers

(Integrated, PCI, VL-Bus)

S3 ViRGE Display Driver

Overview is NeXTanswer #2385; Driver available from NeXTanswers
Number Nine 9FX Reality 332 PCI Display Adapter
(90-332010-000, 91-332010-000, 91-332013-000)
Diamond Stealth 3D 2000 PCI Display Adapter

STB Pegasus

Overview is NeXTanswer #2412; Driver available on NEXTSTEP CDROM
STB Pegasus (VL-Bus, 4MB VRAM)
STB Pegasus (VL-Bus, 2MB VRAM)

Trident Generic

Overview is NeXTanswer #2418; Driver available on NEXTSTEP CDROM
(PCI)
This driver will not support the built-in display on IBM Thinkpad 760CD.

Tseng Labs ET4000

Overview is NeXTanswer #2421; Driver available on NEXTSTEP CDROM
(ISA)

Tseng Labs ET4000W32

Overview is NeXTanswer #2424; Driver available
(VL-Bus)

VGA

Overview is NeXTanswer #2427; Driver available on NEXTSTEP CDROM
(Integrated, ISA)

Weitek Power 9000

Overview is NeXTanswer #2430; Driver available on NEXTSTEP CDROM
Diamond Viper (PCI)
Diamond Viper (VL-Bus)
Genoa VideoBlitz 9200-VL (VL-Bus) - not tested, but should work

Weitek Power 9100

Overview is NeXTanswer #2433; Driver available on NEXTSTEP CDROM
Diamond Viper Pro (PCI, 2MB VRAM)
Diamond Viper Pro (PCI, 4MB VRAM)

Western Digital WD90C24

Overview is NeXTanswer #2436; Driver available on NEXTSTEP CDROM
(Integrated)
NEC Versa E Series
NEC Versa V Series
Compaq LTE Elite

NETWORKING OPTIONS

Key: Networking Driver Name

Location of detailed driver overview; Location of drivers
Adaptors or Chipsets that work with this driver
Integrated systems that work with this driver

3COM EtherLink III

Overview is NeXTanswer #2161; Driver available on NEXTSTEP CDROM and from NeXTanswers

- 3Com EtherLink III 3C509 ISA (BNC, AUI)
- 3Com EtherLink III 3C509B ISA (BNC, AUI)
- 3Com EtherLink III 3C509-TP ISA (RJ-45, AUI)
- 3Com EtherLink III 3C509B-TP ISA (RJ-45, AUI)
- 3Com EtherLink III 3C509-COMBO ISA (BNC, AUI, RJ-45)
- 3Com EtherLink III 3C509B-COMBO ISA (BNC, AUI, RJ-45)
- 3Com EtherLink III 3C509-TPO ISA (RJ-45)
- 3Com EtherLink III 3C509B-TPO ISA (RJ-45)
- 3Com EtherLink III 3C579 EISA (BNC, AUI)
- 3Com EtherLink III 3C579-TP EISA (AUI, RJ-45)
- 3Com EtherLink III 3C589C-COMBO (BNC, RJ-45)
- 3Com EtherLink III 3C589C-TP (RJ-45)

3COM EtherLink XL

Overview is NeXTanswer #2532; Driver available from NeXTanswers

- 3Com EtherLink XL 3C900-TPO PCI (RJ-45)
- 3Com EtherLink XL 3C900-Combo PCI (BNC, AUI, RJ-45)
- 3Com EtherLink XL 3C905-TX PCI (10Base-T, 100Base-TX)

AMD PCnet32

Overview is NeXTanswer #2190; Driver available on NEXTSTEP CDROM
X/Lan Add-On Adapter (based on Am79C970)

- Canon object.station 41*
- Compaq Deskpro XL (On-board)*
- HP Vectra XU (On-Board)*

Cogent EM960 PCI

Overview is NeXTanswer #2232; Driver available
Cogent EM960C (PCI, Combo)
Cogent EM960TP (PCI, TP Only)
Cogent EM964TP (PCI, TP Only, 4 ports - 1st port only supported)

Cogent EMaster EISA

Overview is NeXTanswer #2235; Driver available
EM932 (EISA, BNC/AUI)
EM932TP (EISA, UTP/AUI)
EM935XL (EISA, BNC/UTP/AUI)

DEC21X4XNetwork

Overview is NeXTanswer #2540; Driver available from NeXTanswers
Adaptec-Cogent ANA-6911A/TX
Cogent EM110-TX Fast Ethernet 10/100 Adapter
Cogent EM960 PCI
DEC DE500 (21143 based) PCI 10/100
DEC DE500 Fast EtherWORKS PCI 10/100
DANPEX PCI Ethernet (EN-9400P3)
SMC 9332 Fast Ethernet 10/100 Adapter
SMC PCI EtherPower (SMC 8432)

- DEC Celebris GL On-Board LAN Adapter (21142/21143, 10 Mb/s module)*
- DEC Celebris GL On-Board LAN Adapter (21142/21143, 10/100 Mb/s module)*

DECchip21040 Network

Overview is NeXTanswer #2244; Driver available on NEXTSTEP CDROM

Cogent EM960 PCI
SMC PCI EtherPower (SMC 8432)
Digital EtherWORKS Turbo PCI (DE435)
Linksys EtherPCI LAN Card
DANPEX PCI Ethernet (EN-9400P3)
JCIS Condor (JC1260)
Kingston EtherX PCI Ethernet (KNE40T & KNE40BT)
DEC Celebris GL & GLST

DECchip21140 Network

Overview is NeXTanswer #2247; Driver available on NEXTSTEP CDROM

Cogent EM100 Fast Ethernet Adapter
Cogent EM110 Fast Ethernet 10/100 Adapter
SMC 9332 Fast Ethernet 10/100 Adapter
DEC DE500 Fast EtherWORKS PCI 10/100
Cogent EM110-T4 Fast Ethernet 10/100/BNC Adapter

HP Vectra XM, XP Integrated

Overview is NeXTanswer #2283; Driver available on NEXTSTEP CDROM

BNC, UTP (Integrated)
HP Vectra XM
HP Vectra XP
Elonex WS4100 - Not tested, should work

IBM Token Ring

Overview is NeXTanswer #2298; Driver available on NEXTSTEP CDROM

IBM 25F7367 (ISA, 16/4 Mbps, 8-bit, 64K)
IBM 25F9858 (ISA, 4Mbps, 8-bit, 16K)
IBM 67X0438 (ISA, 4Mbps, 8-bit, 16K)
IBM 60G3994A? (ISA, 16/4 Mbps, 16-bit, 64K)
IBM 92G7668 (Auto, ISA, 16/4 Mbps, 16-bit, 64K)
IBM 41H8450 (Auto, ISA, 16/4 Mbps, 16-bit, 64K)

Token Ring option for Compaq DeskPro and Prolinea series

Intel 82556 Network

Overview is NeXTanswer #2310; Driver available on NEXTSTEP CDROM

Intel EtherExpress PRO/100 EISA LAN Adapter (EILA8265)
Intel EtherExpress PRO/100 PCI LAN Adapter (PILA8465)

Intel 82557 Network

Overview is NeXTanswer #2313; Driver available on NEXTSTEP CDROM and from NeXTanswers

Intel EtherExpress PRO/100+ PCI LAN Adapter (10Base-T, 100Base-TX)
Intel EtherExpress PRO/100 PCI LAN Adapter (PILA8465BX) (10Base-T, 100Base-TX)
Intel EtherExpress PRO/100 PCI LAN Adapter (PILA8475B) (10Base-T, 100Base-T4)
Intel EtherExpress PRO/10+ PCI LAN Adapter (PILA8500) (BNC, AUI, RJ-45)
Intel EtherExpress PRO/10+ PCI LAN Adapter (PILA8520) (RJ-45)

Intel 82595 Chipset

Overview is NeXTanswer #2316; Driver available on NEXTSTEP CDROM and from NeXTanswers

Cogent EM595 TP (PCMCIA, UTP)
Cogent EM595 C (PCMCIA, UTP/BNC) - Not tested, but should work
Cogent EM525 (ISA, BNC/AUI) - Not tested, but should work
Cogent EM525 TP (ISA, UTP) - Not tested, but should work

Cogent EM525 C (ISA, BNC/UTP/AUI)
Intel EtherExpress PRO/10 ISA (BNC/UTP/AUI)
Intel EtherExpress PRO/10 ISA Plug and Play (BNC/UTP/AUI)
Intel EtherExpress PRO/10+ ISA Plug and Play (BNC/UTP/AUI)

Intel 82596 Network

Overview is NeXTanswer #2319; Driver available on NEXTSTEP CDROM

Intel EtherExpress PRO/10 PCI (PILA8400) (BNC, UTP, AUI)
Intel EtherExpress PRO/10 PCI (PILA8420) (UTP)
Intel EtherExpress Flash32 EISA (EILA8225) (BNC, UTP, AUI)
Cogent eMaster EM935 EISA XL (BNC, UTP, AUI)
Cogent eMaster EM932 EISA (UTP, AUI)
Cogent eMaster EM932 EISA (BNC, UTP, AUI)
Cogent eMaster EM945 EISA FDE (BNC, UTP, AUI)

Intel EtherExpress16

Overview is NeXTanswer #2322; Driver available on NEXTSTEP CDROM and as beta from NeXTanswers

EtherExpress16 (ISA, BNC/AUI)
EtherExpress16TP (ISA, UTP/AUI)
EtherExpress16C (ISA, BNC/UTP/AUI)

Intel TokenExpress

Overview is NeXTanswer #2325; Driver available
STP (ISA)

SMC EtherEZ/Elite16 Ultra

Overview is NeXTanswer #2403; Driver available on NEXTSTEP CDROM

SMC EtherCard Elite Ultra16 (ISA)
SMC EtherCard Elite Ultra16T (ISA)
SMC EtherCard Elite Ultra16C (ISA)
SMC EtherEZ (8416BTA)
SMC EtherEZ (8416B)
SMC EtherEZ (8416T)
SMC EtherEZ (8416BT)
SMC EtherEZ (8416BA)
SMC EtherEZ (8416TA)

SMC EtherElite 16

Overview is NeXTanswer #2400; Driver available on NEXTSTEP CDROM
SMC EtherCard Plus Elite16 Ethernet Adapter

Xircom Netwave

Overview is NeXTanswer #2439; Driver available on NEXTSTEP CDROM
Xircom CreditCard Netwave Adapter (CNW(AM))

Xircom Performance Series

Overview is NeXTanswer #2442; Driver available on NEXTSTEP CDROM
Xircom PS-CE2-10BT (PCMCIA, UTP)
Xircom PS-CE2-10BC (PCMCIA, UTP/BNC)

OTHER OPTIONS

Key: Other Driver Name

Location of detailed driver overview; Location of drivers
Adaptors or Chipsets that work with this driver
Integrated systems that work with this driver

FTG ISA Light Pen

Overview is NeXTanswer #2277; Driver available on NEXTSTEP CDROM
PXL-395 Light Pen Interface (ISA)
FT-356 1-Button Light Pen
FT-357 2-Button Light Pen

FTG Light Pen

Overview is NeXTanswer #2280; Driver available on NEXTSTEP CDROM
PXL-780 Light Pen Interface (Serial)
FT-356 1-Button Light Pen
FT-357 2-Button Light Pen

SCSI OPTIONS

Key: SCSI Driver Name

Location of detailed driver overview; Location of drivers
Adaptors or Chipsets that work with this driver
Integrated systems that work with this driver

AMD PC SCSI

Overview is NeXTanswer #2187; Driver available on NEXTSTEP CDROM
The AMDPCSCSI driver is known to work with the following SCSI devices:
Toshiba CD-ROM XM-3401T
Peripheral Solutions 8mm Exabyte DAT Drive -- 8500
Syquest 88MB SQ5110 D3G 810
IOMEGA Bernoulli 230 BETA230 1.1408/2
Pinnacle Micro Tahoe 230MB MO J6CTahoe-130A
Quantum 504MB LPS5255S 311012 Hard Drive
Quantum LPS540S 590H01 Hard Drive
Next SCSI Color Printer
HSD Scan-X Color Scanner (UMAX engine)
COMPAQPC DPES-31080

Compaq Deskpro XL
HP Vectra XU

Adaptec 154x family and compatible

Overview is NeXTanswer #2175; Driver available on NEXTSTEP CDROM and from NeXTanswers
Adaptec 154xB (ISA)
Adaptec 154xC (ISA)
Adaptec 154xCF (ISA)
Adaptec 1542CP (ISA Plug and Play)
Adaptec 174x (EISA) in standard 154x mode only

Adaptec 274x and 284x family

Overview is NeXTanswer #2178; Driver available on NEXTSTEP CDROM
Adaptec 2740 (EISA) - not tested but should work
Adaptec 2740T (EISA)
Adaptec 2840 (VLB)

Adaptec 2940 family & 7870 integrated

Overview is NeXTanswer #2181; Driver available on NEXTSTEP CDROM
Adaptec AHA-2940 (PCI)
Adaptec AHA-2940W (PCI, Wide SCSI)
Adaptec AHA-2940U (PCI, Ultra SCSI)
Adaptec AHA-2940UW (PCI, Ultra/Wide SCSI)
Adaptec AHA-2910B (PCI) - Not tested but should work.

DEC EISA/PCI Server system w/ 7870 on motherboard
DEC Celebris GLST w/ 7850 on riserboard

Adaptec 6x60 chipset (add-on & integrated)

Overview is NeXTanswer #2184; Driver available on NEXTSTEP CDROM
Adaptec AVA-1505A (ISA)
Adaptec AVA-1515A (ISA)
Adaptec AHA-1520A (ISA)
Adaptec AHA-1530P (ISA) - Not tested but might work.
Adaptec Slim SCSI (PC/MCIA)
Intel GX/Pro

Bus Logic FlashPoint

Overview is NeXTanswer #2205; Driver available on NEXTSTEP CDROM and as beta from NeXTanswers
BusLogic KT-930 PCI SCSI Host Adapter
BusLogic KT-932 PCI Dual Chanel SCSI Host Adapter
BusLogic BT-950 PCI Wide SCSI Host Adapter

BusLogic family

Overview is NeXTanswer #2208; Driver available on NEXTSTEP CDROM
BusLogic 546C ISA SCSI Host Adapter
BusLogic 747C EISA SCSI Host Adapter
BusLogic 445C VL-Bus SCSI Host Adapter
BusLogic 946C PCI SCSI Host Adapter (rev C and D only)
BusLogic 948 PCI SCSI Host Adapter (not tested, reported to work)
BusLogic 958 PCI Wide SCSI Host Adapter (not tested, reported to work)
Canon object.station 41

DPT 2000 family

Overview is NeXTanswer #2259; Driver available
DPT 2021/9x SmartCache III (ISA) - not tested, but should work
DPT 2022/9x SmartCache III (EISA)
DPT 2122/9x SmartCache III (EISA)
DPT 2122/9xW SmartCache III (EISA, Wide) - not tested, but should work
DPT 2122/9xDW SmartCache III (EISA, Differential, Wide) - not tested, but should work
DPT 2024 SmartCache III (PCI) - In future update
DPT 2124 SmartCache III (PCI) - In future update
NEC Express II P60 (On-Board)

DPT SCSI family

Overview is NeXTanswer #2262; Driver available on NEXTSTEP CDROM

Model#	Bus	Description
PM2021/90	ISA	SCSI adapter
PM2021/95	ISA	SCSI adapter
PM2022/90	EISA	SCSI adapter
PM2022/95	EISA	SCSI adapter
PM2024	PCI	SCSI adapter
PM2041W *	ISA	Wide SCSI adapter
PM2042W *	EISA	Wide SCSI adapter

PM2044W *	PCI	Wide SCSI adapter
PM2122/90	EISA	SCSI adapter
PM2122/95	EISA	SCSI adapter
PM2124	PCI	SCSI adapter
PM2124W	PCI	WIDE SCSI adapter
PM2142W *	EISA	Wide SCSI adapter

PM3021	ISA	SCSI RAID controller (Not tested, should work)
PM3222	EISA	SCSI RAID controller
PM3224	PCI	SCSI RAID controller
PM3224W	PCI	WIDE SCSI RAID controller

DPT-TWR	n/a	6-bay SCSI Tower
DPT-TWR/W	n/a	6-bay WIDE SCSI Tower (Not tested, should work)

* These products have not yet been tested by NeXT's SQA Dept.
NEC Express II P60 (On-Board)

SymbiosLogic53C8xxSCSIDriver

Overview is NeXTanswer #2415; Driver available on NEXTSTEP CDROM
 (Integrated, PCI)
DEC Celebris XL/590

SOUND OPTIONS

Key: Sound Driver Name

Location of detailed driver overview; Location of drivers

Adaptors or Chipsets that work with this driver

Integrated systems that work with this driver

Beep

Overview is NeXTanswer #2202; Driver available on NEXTSTEP CDROM
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Canon object.station41 Sound

Overview is NeXTanswer #2217; Driver available on NEXTSTEP CDROM
 (Integrated)
Canon object.station 41

Compaq Business Audio

Overview is NeXTanswer #2238; Driver available on NEXTSTEP CDROM
 (Integrated)
Compaq Deskpro / M
Compaq Deskpro / I

ESS 1x88 Audio Driver

Overview is NeXTanswer #2271; Driver available on NEXTSTEP CDROM and from NeXTanswers
 NewCom High Fidelity 16i E5X1853

Compaq Prolinea
NEC Versa 4000
DEC Celebris GL & GL/ST

IntelGXProAudio

Overview is NeXTanswer #2328; Driver available on NEXTSTEP CDROM
 (Integrated)

Intel GX/Professional

Media Vision Jazz 16

Overview is NeXTanswer #2337; Driver available on NEXTSTEP CDROM
Media Vision Deluxe Sound Card
Media Vision Pro Sonic Sound Card

Microsoft Sound System

Overview is NeXTanswer #2340; Driver available on NEXTSTEP CDROM
Microsoft Sound System (ISA)

Pro Audio Spectrum 16

Overview is NeXTanswer #2370; Driver available on NEXTSTEP CDROM
(ISA)

Sound Blaster 16

Overview is NeXTanswer #2406; Driver planned.

Sound Blaster 16 Basic (ISA)
Sound Blaster 16 Value (ISA)
Sound Blaster 16 AWE (ISA)
Sound Blaster 16 SCSI-II (ISA)
Sound Blaster 16 Value PnP (ISA)
Sound Blaster AWE 32 (ISA)
Sound Blaster AWE 64 Value (ISA)
Sound Blaster AWE 64 Gold (ISA)

Sound Blaster 8

Overview is NeXTanswer #2409; Driver available on NEXTSTEP CDROM
Sound Blaster Basic ISA)
Sound Blaster Pro (ISA)
Sound Blaster Delux (ISA)
Sound Blaster Value (ISA)

Yamaha OPL Audio

Overview is NeXTanswer #2582; Driver available as beta from NeXTanswers
Yamaha OPL3-SA3 (YMF715) based PNP audio adapters
Yamaha OPL3-SA (YMF701B) based on-board audio adapters

SYSTEM OPTIONS

Key: System Driver Name

Location of detailed driver overview; Location of drivers

Adaptors or Chipsets that work with this driver

Integrated systems that work with this driver

BusMouse

Overview is NeXTanswer #2211; Driver available on NEXTSTEP CDROM
Logitech MouseMan Bus
Logitech MouseMan Cordless

EIDE

Overview is NeXTanswer #2265; Driver available on NEXTSTEP CDROM and as beta from NeXTanswers

The following ATAPI CD-ROM drives are supported:

Chinon CD-ROM CDS-525 (2X), firmware rev. W09
Matsushita CD-ROM CR-571 (2X), firmware rev. 1.0e -- Panasonic
Mitsumi CD-ROM 1B (4X), firmware rev. B02 -- model FX400
Sony CD-ROM CDU55E (2X), firmware rev. 1.0u
Sony CD-ROM CDU76E-S (4X), firmware rev. 1.0c
Toshiba CD-ROM XM-5302TA (4X), firmware rev. 0305
Philips CM207, firmware rev 1.10 (??) -- reported to work
SONY CD-ROM CDU76E-Q, firmware rev 1.0c (4X)
SONY CD-ROM CDU55D, firmware rev 1.0v (2X)
SONY CD-ROM CDU77E, firmware rev 1.0e (4X)
TORISAN CD-ROM CDR-S1, firmware rev 1.70 (4X) -- SANYO
Chinon CD-ROM CDS-545, firmware rev ERc A1.0 (4X)
GoldStar CD-ROM GCD-R540, firmware rev 1.17 (4X)
GoldStar CD-ROM GCD-540C, firmware rev 1.01 (4X)
SANYO CRD-254P, firmware rev 1.02 (4X)
MATSHITA CD-ROM CR-574, firmware rev 1.06 (4X) -- Panasonic
Pioneer CD-ROM DR-UA124X, firmware rev 1.02 (4X) -- force detection
MITSUMI CD-ROM !B, firmware rev K02 (4X) -- DRM FX400B
TEAC CD-55E, firmware rev ?? (4X) -- Thinkpad 760CD
ATAPI CD-ROM SPEED-6X, firmware rev 6.2D (6X) -- ACER 665A
VERTOS 600ESD CD-ROM X6-IDE, firmware rev 1.20 (6X)
TEAC CD-56E, firmware rev 1.0D (6X)
MATSHITA UJDCD4700, firmware rev 1.11 (??)
TEAC CD-58E, firmware rev 1.1B (8X)
Toshiba CD-ROM XM-5602B, firmware rev 1426 (8X)
Sony CD-ROM CDU311, firmware rev 3.0i (8X)
EPSON CMD-2240 SPEED-6X, firmware rev R100 -- reported to work
Hitachi CDR-7730, firmware 1.1a (4X)
TEAC CD-524E, firmware 4.0D (24X)

Other ATAPI 1.2 compliant CD-ROM drives should work with NEXTSTEP even if they are not in the supported list. If a CD-ROM drive does not work with NEXTSTEP (or even if it does) we would like to know about it. Please send an email message to nextanswers-request@next.com including the model number of the CD-ROM drive and also whether this drive is connected as a master or a slave.

EISABus

Overview is NeXTanswer #2268; Driver available on NEXTSTEP CDROM and from NeXTanswers

Floppy

Overview is NeXTanswer #2274; Driver available on NEXTSTEP CDROM and from NeXTanswers

Integrated, ISA

IDE

Overview is NeXTanswer #2301; Driver available

Integrated, ISA

ISA Serial Port

Overview is NeXTanswer #2331; Driver available on NEXTSTEP CDROM

Integrated, ISA

Intel 82365 and compatible PCMCIA chipset

Overview is NeXTanswer #2304; Driver available on NEXTSTEP CDROM

SwapBox Classic MMCD-D - Not test by SQA, might work.

NEC Versa E Series

NEC Versa V Series

NEC Versa 4000

Compaq LTE Elite
IBM Thinkpad 755CX
IBM Thinkpad 760CD
Adaptec CardPark

Intel 824X0 PCI Chipset

Overview is NeXTanswer #2307; Driver available on NEXTSTEP CDROM
Integrated

PCI Bus

Overview is NeXTanswer #2361; Driver available on NEXTSTEP CDROM

PCMCIA Bus

Overview is NeXTanswer #2364; Driver available on NEXTSTEP CDROM and as beta from NeXTanswers

PS/2-Style Mouse

Overview is NeXTanswer #2373; Driver available on NEXTSTEP CDROM
Rose Electronics ServeView Keyboard/Mouse/Display multiplexer

PS2 Keyboard

Overview is NeXTanswer #2376; Driver available on NEXTSTEP CDROM
Integrated

ParallelPort

Overview is NeXTanswer #2358; Driver available on NEXTSTEP CDROM
Integrated, ISA

Port Server

Overview is NeXTanswer #2367; Driver available on NEXTSTEP CDROM
EIA-232 (Serial)

SCSITape

Overview is NeXTanswer #2388; Driver available on NEXTSTEP CDROM
SCSI

Serial Pointing Device

Overview is NeXTanswer #2391; Driver available on NEXTSTEP CDROM
Alps Glidepoint
LogiTech FirstMouse
LogiTech MouseMan
LogiTech MouseMan Cordless
LogiTech TrackMan
Kensington Expert Mouse v2.0
Kensington Expert Mouse v4.0
Microsoft Serial Mouse
Mouse Systems PC Mouse III

SerialMouse

Overview is NeXTanswer #2394; Driver available
EIA-232 (Serial)

SerialPorts

Overview is NeXTanswer #2397; Driver available
Integrated, ISA