

# *Hardware Compatibility Guide*

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

**Revised July 12, 1996**

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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, NeXT's free information retrieval system. All the drivers in the Guide have corresponding NeXT answer numbered documents with more detailed information.

**NeXTanswers(TM):** 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. By Internet mail, send email to [\\_nextanswers@next.com\\_](mailto:_nextanswers@next.com_) with the two-word subject: INDEX HELP. NeXTanswers is also available by World Wide Web at [\\_http://www.next.com/\\_](http://www.next.com/), FTP at [\\_ftp.next.com\\_](ftp.next.com) or BBS at (415) 780-2965.

**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 NeXT's Quality Assurance team or NeXT Technical Support have encountered. Please refer to these more detailed overviews prior to making purchasing decisions to assure compatibility of your system.

**Driver Updates:** NeXT 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 [\\_ftp.next.com\\_](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/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 NeXT 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 NeXT representative)

## **GENERAL SYSTEM REQUIREMENTS**

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### ***CPU***

486, Pentium(R) or Pentium(R) 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(TM) and Logitech(TM) compatible PS/2(TM) 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). NeXT 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**

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***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*

### ***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**

*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**

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 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**  
(Integrated)

*IBM ThinkPad 760CD*

### ***Matrox MGA Millennium***

**Overview is [\\_NeXTanswer #2334\\_](#); Driver available on NEXTSTEP CDROM**  
Matrox MGA Millennium

### ***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 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**

(Integrated, PCI, VL-Bus)

### ***S3 ViRGE Display Driver***

**Overview is [\\_NeXTanswer #2385\\_](#); Driver available as beta 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\\_](#)**

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***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**

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)

### ***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)

### ***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**

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**

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 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**

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\_**

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***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\_**



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***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**

Adaptec 154xB (ISA)

Adaptec 154xC (ISA)

Adaptec 154xCF (ISA)

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)

*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**

BusLogic KT-930 PCI SCSI Host Adapter

BusLogic KT-932 PCI Dual Channel 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  
PM2144UW \* PCI Ultra 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**

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***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**  
( )

### ***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**  
(ISA)

*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 available on NEXTSTEP CDROM**  
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 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)

**[\\_SYSTEM OPTIONS\\_](#)**

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**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**

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 (??)

*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](mailto:_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**

### ***Floppy***

**Overview is [\\_NeXTanswer #2274\\_](#); Driver available on NEXTSTEP CDROM**

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**

***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

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