

# Certified by NeXT

**Title:** Digital DECpc LPx 466d2

**Entry Number:** 1581

**Expiration of Certification:** June 3 1995

**Last Updated:** <<Date July 21 1995>>

**Product Vendor:**

Digital Equipment Corporation

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**Keywords:** DEC, XL, 560, Weitek, Diamond, Viper, ISA, PCI

**Explanation of Certification**

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 for Intel Processors.

- 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 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 configurations.
- Only the manufacturing revisions of a system unit and its add-on cards listed in the NeXTAnswer are certified.
- NeXT certification does not necessarily mean "error free." Certified systems may contain detected or undetected compatibility problems.

**Certified Configurations:**

NeXT has certified the following configuration:

- Digital DECpc LPx 466d2
- 32MB RAM
- 405MB SCSI hard disk
- Intel EtherExpress 16
- MediaVision Pro AudioSpectrum 16
- Digital PCXBV-PE 14" color monitor

**Setup and Installation:**

NeXT used an Adaptec 1542CF SCSI adapter to certify this system. Because of a bug in NEXTSTEP, occasional kernel panics may occur under 3.2 while booting with this adapter. While repeated attempts should result in a successful boot, NeXT recommends

obtaining a copy of the latest Adaptec driver (available through NeXTAnswers), which fixes this bug.

Because both Adaptec SCSI adapters and Pro AudioSpectrum 16 cards use IRQ level 11 by default, a conflict will occur in Configure.app. NeXT recommends changing the IRQ level of the Pro AudioSpectrum card to 15.

## Technical Specification of Certified System

The following information technically defines the specific configuration NeXT certifies.

**Tested under NEXTSTEP for Intel Processors Release 3.2**

### Hardware Configuration Information

System Name: Digital DECpc LPx 466d2  
Processor: Intel 486DX2  
Processor Speed: 66 MHz  
Type: Desktop  
RAM: 32 MB  
Hard Disk: 405MB SCSI  
Model Number: PC762  
Serial Number: 324TS006

### Motherboard

BIOS Version: Phoenix A486  
BIOS Revision Number: 1.01.02  
Bus Slots: 4 ISA, 6 ISA/VLB  
Board Identifiers: 50-22686-01 B01, 54-22687  
Jumper/Switch settings:  
\* J13: OFF factory use  
\* J14: OFF recovery mode DISABLED)  
\* J15: OFF monochrome video adapter (?)  
\* J16: OFF mfg test mode DISABLED  
\* J17: OFF flash ROM update DISABLED  
\* J24: ON clock speed = 33 MHz  
\* J25: OFF ""

\* J26: ON ""  
\* J27: 1-2 VL-BUS o WS write  
\* J28: VLRDY -> CPURDY  
J33: OFF reset switch DISABLED  
\* J35-38: OFF 256K ROM size

\*factory setting

**Connectivity**

Number integrated serial ports: 2  
Number integrated parallel ports: 1

**Video**

Model: Digital PC76H-EB  
Interface: VL-BUS  
BIOS Revision Number: 1.02.01  
Chipset: S3 86C928  
RAMDAC: AT&T ATT20C491-11  
VRAM: 2MB  
Board Identifiers: 5022694-01 A01  
Jumper/Switch settings:  
\* J4: OFF VGA IRQ9 DISABLED

\*factory setting

**Disk Controller**

Type: SCSI  
Model: Adaptec 1540C  
Interface: ISA  
Jumper/Switch settings:  
S1:  
\* 1: OPEN termination software controlled  
\* 2: OPEN I/O port 330H  
\* 3: OPEN ""

\* 4: OPEN ""  
\* 5: CLOSED disable floppy controller  
\* 6: OPEN BIOS address DC000H  
\* 7: OPEN ""  
\* 8: OPEN ""

\*factory setting

**Fixed Disk**

Type: SCSI  
Model: Digital RZ25-E  
Size: 405 MB  
Lot Number: K-04-9406-3  
Serial Number: TN437010  
SCSI ID: 0  
Drive Identifiers: A02, SH33206017  
Jumper/Switch settings:  
All jumpers OFF, except second from right looking at front of drive.

**CD-ROM Drive**

Type: SCSI  
Model: Toshiba XM-4101B  
Version Number: 052 S  
ROM Version Number: CA31016  
Serial Number: 3X60D15396  
SCSI ID: 6  
Jumper/Switch settings:  
-- Jumper installed  
00 Jumper removed

I I I P P T T  
D D D R R E E  
1 2 4 T V S R  
Y T M

0 | | 0 0 0 0  
0 | | 0 --- 0

### **Floppy Disk**

Model: Mitsubishi MF355F-258MG  
Serial Number: M 085871

### **Mouse**

Type: Three-button PS/2  
Model: Digital  
Model Number: PC7XS-CA  
Serial Number: LT32900382

### **Keyboard**

Model: Digital 101-key  
Model Number: RT101  
Part Number: 119690-001 REV.A  
Serial Number: 71931799

### **Monitor**

Model: Digital 14" SVGA  
Model Number: PCXBV-PE  
Serial Number: 2134625602

The above configuration ships with the DECpx LPx 466d2. In order to complete certification, NeXT added the following equipment:

### **Network**

Model: Intel Etherexpress 16  
Interface: ISA  
Connectors: BNC, AUI  
Board Identifiers: PB305898-002, 305896-004 03630331213, P01317745  
Ethernet Address: 00AA0018573D  
Jumper/Switch settings: N/A

**Sound**

Model: Media Vision Pro Audio Spectrum 16  
Interface: ISA  
Board Identifiers: 650-0044 01P  
Jumper/Switch settings:  
    J2: All OFF

**ROM BIOS Setup**

Access keystroke during boot: F1

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Date: (today's date)  
Time: (the current time)  
Language: English  
Diskette A: 3.5", 1.44 MB  
Diskette B: Not Installed  
Hard Disk 1: Not Installed  
Hard Disk 2: Not Installed  
Base Memory: 640K  
Extended Memory: 31744K  
Video Card: VGA or EGA  
Keyboard: Installed  
NumLock at boot: On  
ROM Base Setup: Enabled  
Hard Disk Values  
    (all blank)

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Password: Not Installed  
Parallel Port: Enabled as LPT1: 378h-37ah, Bi-directional mode  
Serial Port 1: Enabled as COM1: 3f8h-3ffh (IRQ4)  
Serial Port 2: Enabled as COM2: 2f8h-2ffh (IRQ3)

Diskette Drives: Enabled  
IDE Hard Drives: Disabled  
Boot from diskette A: Enabled  
Boot from Disk C: Enabled  
User Definable Drives: 48 and 49  
Exchange Diskette Drives: Disabled

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CPU speed: Fast  
Primary Cache: Enabled  
Secondary Cache: Enabled  
E00000 Selection: Local Memory  
Cache BIOS ROM: Enabled  
Shadow Video ROM: Enabled  
Shadow 32K at C8000h: Disabled  
Shadow 32K at D0000h: Disabled  
Shadow 32K at D8000h: Disabled

**Configure Settings**

**Display**

Driver Name: S3 Display Adapter  
Project Revision: 1.0 (displayDrivers-27)  
Settings: Port Address 0x3B4, Mapped Memory 0x3C00000, Display Mode varied

**Mouse**

Driver Name: PS/2-Style Mouse  
Project Revision: 1.0 (kbdmicedrivers-7)  
Settings: IRQ Level 12, 100 dots per inch, Invert directional axes Off

**Network**

Driver Name: Intel EtherExpress Ethernet Adapter  
Project Revision: 1.0 (enetdrivers-6.1)  
Settings: Port Address 0x300, IRQ Level 10, Connector Type BNC



**SCSI/IDE**

Driver Name: Adaptec 1542B SCSI Adapter  
Project Revision: 1.0 (scsidrivers-6)  
Settings: DMA Channel 5, Port Address 0x330, IRQ Level 11

**Audio**

Driver Name: ProAudioSpectrum 16  
Project Revision: 1.0 (audiodrivers-31)  
Settings:DMA Channel 7, Port Address 0x388, IRQ Level 15

**Floppy**

Driver Name: Floppy Disk Drive  
Project Revision: 1.0 (floppyDriver-5)  
Settings: DMA Channel 2, Port Address 0x3F2, IRQ Level 6

**Keyboard**

Driver Name: PS/2-Style Keyboard  
Project Revision: 1.0 (kbdmicedrivers-7)  
Settings: Port Address 0x60, IRQ Level 1, 101 Key PC Keyboard

**Parallel**

Driver Name: On-Board Parallel Port  
Project Revision: 1.0 (paralleldrivers-8)  
Settings: Port Address 0x378, IRQ Level 7

**Serial**

Driver Name: On-Board Serial Ports  
Project Revision: 1.0 (serialdriver-3.2)  
Settings: Port Address 0x3F8, IRQ Level 3/4

**Known Problems:**

- The Media Vision Pro Audio Spectrum 16 is known to operate erratically in ISA-BUS systems. Typical problems encountered

include: dropouts, stuttering, failure to record or playback.

- The Pro Audio Spectrum is also known to cause a kernel panic under NS 3.2 when recording at 44.1 KHz in stereo in a system that also contains an Adaptec 1542 SCSI controller.

- In our tests, a chunk copy made from the system was unable to be read back on a NeXTstation (NeXT hardware).

- The Release 3.2 serial port driver may become unreliable at speeds above 19,200 baud. A bug in this driver may cause your computer to crash when serial port activity goes above an undetermined threshold.