

NEXTSTEP for Intel Processors Tested Compatible System

Title: Deskpro XL 5120
Last Updated: November 13 1995
Effective Date: November 14th 1995
Tested With: 3.3

Product Vendor:
Compaq

Explanation of Compatibility Testing

NEXTSTEP Compatible systems are tested by third parties using a test procedure developed by NeXT. NeXT approves the use of the "NEXTSTEP Compatible" designation for these systems based on the completeness of the test results submitted by these NeXT-trained 3rd parties.

For more detailed information on the NICE program, please refer to NeXTanswers document [1903_Compatible_Systems_Testing_With_NEXTSTEP.rtf](#)

Note: NeXT accepts no support responsibilities or liability whatsoever for any system authorized to use the "NEXTSTEP Compatible" designation, nor does NeXT represent that their test procedures or training--even if followed exactly by the 3rd party performing the test work--are in any way complete or exhaustive. Known or unknown errors may be present in configurations which are designated as "NEXTSTEP Compatible" which could adversely affect the operation of these systems. Support for compatible systems may be provided by the PC vendor or System integrator.

Tested Components:

Compaq reports testing a system configuration consisting of the following components:

System CPU Board(s)

CPU: Intel Pentium, 120 MHz
RAM: 64MB maximum tested
EISA slots: 4 and 1 dedicated to processor board
PCI slots: 2
VLB slots: 4 and 1 dedicated to processor board
BIOS name: Deskpro XL 5120/60
Jumper/Switch Settings:
All jumpers in factory default position.

IDE Controller(s)

n/a

SCSI Controller(s)

Manufacturer: AMD

Model name: PCNet-SCSI

Model number: AM79C974KC

Revision: n/a

Interface Type: PCI

Jumper/Switch Settings:

n/a

CD-ROM Drive(s)

Manufacturer: Matsushita-Kotobuki

Model name: CR-503BCQ

Model number: Compaq CR-503BCQ
Revision: 1.0b
Interface Type: SCSI
SCSI ID: 5
Jumper/Switch Settings:
All jumpers in factory default position.

Hard Drive(s)

Manufacturer: IBM
Model name: DPES-31080
Model number: COMPAQPCDPES-31080
Revision: S31K
Size: 1.05GB

Manufacturer: Micropolis

Model name: 2105
Model number: COMPAQ 2105
Revision: 15E3
Size: 560MB
SCSI ID: 1

Jumper/Switch Settings:

All jumpers in factory default position except for the SCSI ID 1.

Floppy Drive(s)

Manufacturer: TEAC
Model name: FD-235HG
Model number: 6325-U
Jumper/Switch Settings:

All jumpers in factory default position.

Graphics Adaptor(s)

Manufacturer: Matrox
Model name: MGA Millennium
Video RAM: 8MB
RAM Type: WRAM
Interface: PCI
BIOS Rev. #: 1.6
Jumper/Switch Settings:
n/a

Serial Port(s)

Ports: 2
UART: 16550A compatible

Parallel Port(s)

on-board, LPT1

Keyboard(s)

Manufacturer: Compaq
Model name: Compaq Vocalyst Keyboard
Interface: PS/2
of keys: 101
Jumper/Switch Settings:
n/a

Mice and Other Pointing Devices

Manufacturer: Logitech
Model name: M-SF14
Interface: PS/2
Jumper/Switch Settings:
n/a

LAN Adaptor(s)

Manufacturer: AMD
Model name: PCNet-SCSI
Interface: PCI
Connectors: AUI, TP*
Jumper/Switch Settings:
n/a

Sound Card(s)

Manufacturer: Analog Devices
Model name: SoundPort
Interface: n/a
Jumper/Switch Settings:
n/a

Monitor(s)

Manufacturer: Compaq

Model name: Color Monitor

Size: 21 inches

Max resolution: 1200 width x 1600 height @85Hz

Jumper/Switch Settings:

n/a

Note that only the specific components listed were tested.

Setup and Installation

Hardware Setup:

See above for individual setup instructions for each adaptor.

CMOS settings:

To Access:

Press F10

Settings:

To Access: Press F10 when cursor jumps over to the right of the screen. If NEXTSTEP is loaded then select partition 1.

ECU settings (EISA-bus systems only):

Board Information

Compaq DESKPRO XL System Board

System

Manufacturer _____	Compaq
ID _____	CPQ0521
Category _____	SYS
Board slot type _____	Embedded
Readable ID _____	Yes
Overlay name _____	CPQSYS02.OVL
Overlay version _____	2.20

Primary Operating System _____	UNIX/XENIX
System Identification Number _____	0520PQN60013

Integrated Diskette Controller

Standard Interface _____	Primary Address
Drive A _____ (3.5 inch)	1.44-Megabyte
Drive B _____	Not Installed
Drive A/B Swap _____	Not Swapped

Integrated Fixed Disk Controller

Standard Interface _____	Disabled
Drive Type - Unit 1 _____	Not Installed
Drive Type - Unit 2 _____	Not Installed

Compaq Memory

Base Memory _____ 640 Kbytes,
Linear
Extended Memory _____ Extended Memory
Installed
Total Memory _____ 65536 Kbytes
Integrated SCSI BIOS _____ Enabled

Passwords

Set power-on password _____ Disabled
Set administrator password _____ Disabled
Set network server mode _____ Disabled
Set QuickLock password state _____ Disabled
Set QuickBlank state _____ Disabled

Power-on Features

Diskette boot control _____ Enable Floppy
Boot

Power Management Features

Energy Saver Mode _____ Disabled
System Timeout _____ Disabled
Monitor Timeout _____ Disabled
Blink LED during Monitor Timeout _____ Disabled

Monitor Response _____ Disabled
QuickLock during standby _____ Disabled

Integrated Interfaces

Serial (A)	_____	COM1
Serial (B)	_____	COM2
Parallel	_____	LPT1
Aux Input (Pointing Device)	_____	Interrupt

Enabled

System Rom Information

Revision	_____	486W
Date	_____	08/30/95

Integrated Audio

Integrated audio adapter _____	Enabled
Integrated audio resources _____	530h-537h
Line in pass-through _____	Enabled

System - Compaq DESKPRO XL System Board

Switch Name: SWITCH (ON =
CLOSED = 1)
= 0) (OFF = OPEN

Default factory settings:
OFF OFF OFF OFF OFF OFF

Change settings to:

```
+---+---+---+---+---+---+
|OFF|OFF|OFF|OFF|OFF|OFF|
+---+---+---+---+---+---+
  1   2   3   4   5   6
```

Switch Positions:

- 1 - OFF=Disable ROM flash ability,
ON =Enable ROM flash ability.
- 2 - OFF=Unlock EISA Configuration,
ON =Lock EISA Configuration.
- 3 - OFF=Floppy write enabled,
ON =Floppy write disabled.
- 4 - OFF=Floppy boot control dependent on configuration

selection,

 ON =Floppy boot enabled (configuration selection
override).

5 - OFF=User password override disabled,
 ON =User password override enabled.

6 - OFF=Retain EISA configuration,
 ON =Erase EISA configuration on boot.

Board Information

PCI VGA Controller

Slot 5

Manufacturer _____	PCI
ID _____	102b0519
Category _____	VID
Board slot type _____	PCI
Readable ID _____	No
Skirt _____	No

PCI Function 1 _____ Enabled

Standard VGA Resources _____ Enabled

Board Information

Compaq DESKPRO XL Processor Board

Proc

Manufacturer _____	Compaq
ID _____	CPQ9A83
Category _____	CPU
Board slot type _____	Other, P1
Readable ID _____	No
Skirt _____	No
Length _____	330 millimeters
Amperage _____	2440 milliamps
Overlay name _____	CPQSYS02.OVL
Overlay version _____	2.20

System Processor _____ PENTIUM at
120MHz
387 Numeric Coprocessor _____ Integrated

Board Information

PCI Ethernet Controller

Embedded

Manufacturer _____ AMD
ID _____ 10222000

Category _____ NET
Board slot type _____ PCI
Readable ID _____ No
Skirt _____ No

Ethernet Resources _____ Enabled

Board Information

Integrated PCI SCSI-2 Controller

Embedded

Manufacturer _____	AMD
ID _____	10222020
Category _____	MSD
Board slot type _____	PCI
Readable ID _____	No
Skirt _____	No
Overlay name _____	CPQ4400.OVL
Overlay version _____	2.20

SCSI Resources _____ Enabled

Controller Order _____ First

Attached Devices

SCSI ID 0	_____	COMPAQ 1.05-GB
Hard Drive		
SCSI ID 1	_____	COMPAQ 535-MB
Hard Drive		
SCSI ID 5	_____	COMPAQ CD-ROM

Used Resources

Resource	Slot	Function
IRQ 3	_____	System Serial (B)
IRQ 4	_____	System Serial (A)
IRQ 5	_____	Slot 5 PCI Function 1
IRQ 6	_____	System Standard Interface

IRQ 7	_____	System	Parallel
IRQ 11	_____	Embedded	SCSI Resources
IRQ 12	_____	System	Aux Input (Pointing
Device)			
IRQ 13	_____	System	Processor Control
IRQ 15	_____	Embedded	Ethernet Resources
DMA 0	_____	System	Parallel
DMA 1	_____	System	Integrated audio
resources			
DMA 2	_____	System	Standard Interface
Port 2F8h - 2FFh	_____	System	Serial (B)
Port 378h - 37Ah	_____	System	Parallel
Port 388h	_____	System	Integrated audio

resources

Port 3B4h - 3B5h	Slot 5	Standard VGA Resources
Port 3B9h - 3BAh	Slot 5	Standard VGA Resources
Port 3C0h - 3CFh	Slot 5	Standard VGA Resources
Port 3D0h - 3DFh	Slot 5	Standard VGA Resources
Port 3F0h - 3F5h	System	Standard Interface
Port 3F6h - 3F7h	System	Standard Interface
Port 3F8h - 3FFh	System	Serial (A)
Port 530h - 537h	System	Integrated audio

resources

Port 46E8h	Slot 5	Standard VGA Resources
Port 5C80h - 5C83h	System	EISA Reserved
Port 6C80h - 6C83h	System	EISA Reserved
Port 7000h - 701Fh	Embedded	Ethernet Resources
Port 7100h - 717Fh	Embedded	SCSI Resources

Port 7C80h - 7C83h	_____	System	EISA Reserved
Port 8C80h - 8C83h	_____	System	EISA Reserved
Port 9C80h - 9C83h	_____	System	EISA Reserved
Port 0AC80h - 0AC83h	_____	System	EISA Reserved
Port 0BC80h - 0BC83h	_____	System	EISA Reserved
Port 0CC80h - 0CC83h	_____	System	EISA Reserved
Port 0DC80h - 0DC83h	_____	System	EISA Reserved
Port 0EC80h - 0EC83h	_____	System	EISA Reserved
Port 0FC80h - 0FC83h	_____	System	EISA Reserved

Memory

	Address	Amount		
#	0	640K	System	Base Memory
	0A0000h	64K	Slot 5	Standard VGA Resources
	0B0000h	32K	Slot 5	Standard VGA Resources

0B8000h	32K	Slot 5	Standard VGA Resources
0C0000h	32K	Slot 5	PCI Function 1
0C8000h	16K	System	Integrated SCSI BIOS
# 1M	15M	System	Extended Memory
34M	16K	Slot 5	PCI Function 1
40M	8M	Slot 5	PCI Function 1
2060M	1K	System	Processor Control

= Caching

Available Resources

Amount	IRQs	DMAs	ISA I/O Ports	Memory
Address				
0CC000h	2 (9)	3	100h - 2F7h	16K
0D0000h	10	5	300h - 377h	64K
0E0000h	14	6	37Bh - 387h	64K
0F0000h		7	389h - 3B3h	64K
	3	3	3B6h - 3B8h	3
	3	3	3BBh - 3BFh	3
	3	3	3E0h - 3EFh	3

System Specifications

Slot Name Tag (s)	Slot Type	Board ID	Accept Skirted	Max Length	Bus- master	Slot
-----	-----	-----	-----	-----	-----	
Slot 1	EISA	(Empty)	Yes	341mm	Yes	
Slot 2	EISA	(Empty)	Yes	341mm	Yes	
Slot 3	EISA	(Empty)	Yes	341mm	Yes	
Slot 4	EISA or PCI	(Empty)	Yes	341mm	Yes	
Slot 5	PCI	102b0519	Yes	341mm	Yes	
Proc	Other	CPQ9A83	Yes	341mm	No	P1

Nonvolatile memory _____ 8K

Special installation instructions:

To perform the installation using the built-in AMD SCSI you need the Additional Device Drivers diskette which can be downloaded from the NeXTanswers BBS. Once the installation is complete, reinsert the Installation disk to boot up to. When the boot prompt appears type "config=sd()Default. It will prompt you to insert the driver diskette which has the driver for the built-in SCSI. This procedure has to be accomplished only after the initial install.

Driver settings:

Use Configure.app to load and configure the following drivers:

Display

MatroxMGA2064WDisplayDriver

Pointing Device:

PS2 Mouse

Network

AMDPCnet32NetworkDriver

SCSI

AMDPCSCSIDriver

Audio

MicrosoftSoundSystem

DMA Channels: 1

I/O Ports: 0x530-0x537

IRQ Levels: 10

Other

SerialPorts

Floppy Disk

PS2 Keyboard

PCIBus
EISABus
Parallel port

Known Problems

To use the on-board audio, Microsoft Sound System needs to be chosen.
Sound recording is not supported in 44KHz stereo modes.

See Also: (None)