

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 _____	1.44-Megabyte
(3.5 inch)	
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)		
		(OFF = OPEN
= 0)		
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
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Standard VGA Resources	_____	Enabled
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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

Device)	IRQ 7	System	Parallel
	IRQ 11	Embedded	SCSI Resources
	IRQ 12	System	Aux Input (Pointing
	IRQ 13	System	Processor Control
	IRQ 15	Embedded	Ethernet Resources
resources	DMA 0	System	Parallel
	DMA 1	System	Integrated audio
	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

ÄÄÄIRQsÄÄÄÄÄÄDMAsÄÄÄÄÄÄÄÄÄÄISA				I/O PortsÄÄÄÄÄÄMemory				
AmountÄÄÄÄ	AddressÄÄÄÄ							
2 (9)	3	3	100h	-	2F7h	3	16K	
0CC000h								
10	3	5	3	300h	-	377h	3	64K
0D0000h								
14	3	6	3	37Bh	-	387h	3	64K
0E0000h								
	3	7	3	389h	-	3B3h	3	64K
0F0000h								
	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)