

NEXTSTEP for Intel Processors

Title: HP Vectra XP/60

Entry Number: 1665

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Expiration of Certification: 26, July 1995

NEXTSTEP Release Certified: 3.2

Product Vendor:

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Explanation of Certification

To ensure a high level of compatibility and support for PC-compatible system configurations, NeXT has developed a process for comprehensively testing specific configurations for compatibility with NEXTSTEP for Intel Processors.

In this process, the NeXT Quality Assurance group subjects each specific system configuration to a suite of compatibility tests. If a system configuration passes the test suite, it is considered *certified*. Only the manufacturing revisions of a system unit and its add-on cards listed in the NeXTAnswer are considered certified. Once a configuration is certified, NeXT creates a detailed NeXTanswers document (like this one) that lists the specific configuration tested, plus any setup information required to configure the system for NEXTSTEP.

Because of the detailed information that's available on certified configurations, NeXT delivers the best technical support on them. Keep in mind that a system platform might be 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.

Note: NeXT certification does not necessarily mean a configuration is error-free. Certified systems may contain detected or undetected compatibility problems.

Overview:

The Hewlett Packard Vectra XP/60 is an Intel Pentium[®] processor based, ISA and PCI bus desktop computer, with built-in local bus graphics and Ethernet.

Certified Components:

NeXT has certified the following components(*):

System CPU Board(s)

HP Vectra XP/60

CPU Type(s) & Speed(s)

60 MHz Intel Pentium[®]

System RAM

64MB maximum

IDE Controller(s)

built-in

SCSI Controller(s)

Adaptec 1542CF

SCSI CD-ROM Drive(s)

Toshiba 3401 double-spin CD

Hard Drive(s)

450MB Seagate 3550A

Floppy Drive(s)

Integrated 1.44MB 3.5"

Graphics Adapter(s)

Integrated S3-928 local bus

Serial Port(s)

Integrated, COM1

Parallel Port(s)

Integrated, LPT1

Keyboard(s)

HP, PS/2 interface

Mice and Other Pointing Devices

HP, PS/2 interface

LAN Adapter(s)

Integrated AMD PC-net Ethernet adapter

Sound Card(s)

Microsoft Windows Sound System

Monitor(s)

NEC 5FG

(*) Note that only the firmware and hardware revision numbers specified in the "Technical Specification" section below are certified. Occasionally vendors may modify firmware or hardware characteristics without changing model numbers. Only systems with the specified firmware and hardware revision(s) have been certified.

Setup and Installation:

Switch Settings:

- Switch block SW1:
- 1 OFF disable security mode
 - 2 OFF retain CMOS configuration
 - 3 OFF enable ROM updates
 - 4 OFF always off (not used)

- Switch block SW3:
- 1 ON 60 MHz speed
 - 2 OFF always off (not used)
 - 3 OFF enable passwords
 - 4 OFF enable IRQ12 for mouse

CMOS Settings:

Access the ROM BIOS setup program by pressing F2 during boot-up. Make the following settings:

Date: (as appropriate)

Time:

User Preferences

User Password	Not Set
Keyboard Lock Timer	Disabled
Screen Blanking	Disabled
Display Power Management	Disabled
Hard Disk Power Management	Disabled
Key Click Volume	0
Key AutoRepeat Speed	30.0 per Second
Delay before Autorepeat	0.25 Seconds
Power-on Numlock state	Off

Computer Information

Processor	Pentium (TM)
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Computer Speed	High (60 MHz)
Coprocessor	Integrated
Memory Size	
Base, on System Board	640 KB
Base, on Accessory Board	0 KB
Base, TOTAL	640 KB
Reserved	384 KB
Memory Hole Above 1 MB	Disabled
Extended	64896 KB
TOTAL	65536 KB (64.0 MB)
Memory Cache On	
Hard Disk Drives	
Hard Disk 1	Detected 435 MB 1018 14 62 -1 1017 N
Hard Disk 2	None or SCSI
Interface	Integrated
Memory Hole Below 1 MB	Disabled Size=NA
SCSI	
SCSI BIOS ROM Address	None
SCSI BIOS Shadowing	Disabled
Flexible Disk Drives	
Drive 1	3.5-inch, 1.44MB
Drive 2	None
Bootable Drive	Drive 1
Interface	Integrated
Security Features	
System Administrator Password	Not Set
Network Server Mode	Disabled
Start From Flexible Disk	Enabled
Start From Hard Disk	Enabled
Flexible Disk Drives	Enabled
Hard Disk Drives	Enabled
Writing on Flexible Disks	Enabled

Parallel Port	Parallel 1 (378h, IRQ7)
Serial Port A	Serial 1 (3f8, IRQ4)
Infrared	Serial 2 (2f8, IRQ3)
Remote Program Load	
Remote Start	Disabled
Protocol	Not Used
Integrated Ethernet Interface	
Integrated Interface	Enabled
I/O Address	I O Base = 300h
Hardware Interrupt	IRQ 5
DMA Channel	6
MAC Address	(as appropriate)
IRQ Map for Accessory Boards	
IRQ 9	Available for PCI
IRQ 10	Used By ISA Board
IRQ 11	Used By ISA Board
Video	
Primary Adapter	EGA/VGA or Similar
Video BIOS Shadowing	Enabled
VGA Enhanced/Ergonomic Modes	
640x480 Mode	72 Hz Ergonomic
800x600 Mode	72 Hz Ergonomic
1024x768 Mode	75 Hz
1280x1024 Mode	75 Hz
1600x1200 Mode	60 Hz
BIOS Version	QY.00.05
PC Serial #	(as appropriate)

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

HP Vectra XP/60

Type(s): Desktop
Model Number(s): D3003A

System CPU Board(s)

HP Vectra XP/60
BIOS Version: Phoenix
BIOS Revision Number: QY.00.05 HP VECTRA XP/60 PC

CPU Type(s) & Speed(s)

60 MHz Intel Pentiumδ

System RAM

64MB maximum

IDE Controller(s)

Integrated

SCSI Controller(s)

Adaptec 1540CF
Interface: ISA adapter
BIOS Revision Number: v2.01
Firmware Revision Number(s): 5538101-00 C, 553601-00 C

SCSI CD-ROM Drive(s)

Toshiba double spin external
Model Number: TXM-3401-E1

Hard Drive(s)

450 MB IDE - HP model #D2884-60001, Seagate model #ST3550A

Floppy Drive(s)

Integrated 1.44MB 3.5"

Graphics Adapter(s)

Built-in S3-based adapter

Interface: system board

BIOS Revision Number: 0.07.00

Chipset: S3-928

RAMDAC: TI XTVP3020

VRAM: 4 MB

Serial Port(s)

Integrated, COM1

Parallel Port(s)

Integrated, LPT1

Keyboard(s)

HP, PS/2 interface

Model Number: C1405B #ABA

Mice and Other Pointing Devices

HP, PS/2 interface

Model Number: C1413A

LAN Adapter(s)

On-Board Ethernet interface

Interface: system board

Chip Set: AMD PC-net

Connectors: RJ-45

Sound Card(s) (*)

Microsoft Windows Sound System

Monitor(s) (*)

NEC 17" color

Model Number: NEC 5FG

(*) NeXT added this item to the configuration to complete certification.

Known Problems:

Release 3.2:

- 7 ISA bus computers are limited to a maximum of 64MB of RAM under Release 3.2.
- 7 SoftPC support is erratic. Current testing shows that these problems may only occur under certain video modes.
- 7 Sounds are not converted to or from 11 KHz sampling rate correctly. This is a problem with the Windows Sound System driver, which will be fixed in a later release.
- 7 System rebooted when ejecting a Macintosh-formatted disk; this was not reproducible. The system rebooted once while running SoftPC and two other times when doing nothing special.
- 7 Support for the on-board Ethernet capabilities of this system is provided by a custom LAN driver. This driver is available from NeXTanswers as 1623_HPVectra_XM_XP_LANDriver.pkg.compressed. A ReadMe file is available as NeXTanswer 1624_HPVectra_XM_XP_LANDriver.ReadMe.rtf.
- 7 Support for the on-board graphics capabilities of this system is provided by a custom display driver. This driver is available from NeXTanswers as 1588_HPXPDisplayDriver.pkg.compressed. A ReadMe file is available as NeXTanswer 1589_HPXPDisplayDriver.ReadMe.rtf.

See Also:

- 1108_Adaptec_1542C_and_Adaptec_1540C_SCSI_Adapters.rtf
- 1471_Microsoft_Windows_Sound_System.rtf
- 1206_Intel_Ether_Express_Ethernet_Adapter.rtf
- 1624_HPVectra_XM_XP_LANDriver.ReadMe.rtf
- 1589_HPXPDisplayDriver.ReadMe.rtf