NEXTSTEP for Intel Processors Certified System

Title: Globalyst 620
Entry Number: 1973
Last Updated: September 14 1995
Tested With: 3.3

Product Vendor:
AT&T GIS

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. Be sure to read all Known Problems before beginning installation.

Certified Components:

NeXT has certified a system configuration consisting of the following components(*):

System CPU Board(s)

Globalyst 620 system board

CPU:	Intel Pentium, 100 MHz
RAM:	32MB maximum tested
ISA slots:	3
PCI slots:	2
BIOS name:	Phoenix, AT&T
BIOS version:	4.04, 1.01.00

Jumper/Switch Settings:

All jumpers in factory default position

IDE Controller(s)

n/a

SCSI Controller(s)

Manufacturer: Adaptec

Model name: AHA-2940
Model number: 2940
Revision: F
BIOS Rev. #: 1.11S, 589204-00 B
Interface Type: PCI
Jumper/Switch Settings:
n/a

CD-ROM Drive(s)

Hard Drive(s)

Manufacturer: Segate
Model name: Hawk
Model number: ST31230N
Interface Type: SCSI
Size: 1 Gig

Floppy Drive(s)

Manufacturer: Panasonic
Model number: JU-257A655P
Jumper/Switch Settings:
n/a

Graphics Adaptor(s)

Manufacturer: S3
Model name: Trio 64
Video RAM: 2 Megs
RAM Type: DRAM
Interface: PCI(integrated)
BIOS Rev. #: Phoenix 12409897C
Jumper/Switch Settings:
n/a

Serial Port(s)

Ports: 2
UART: 16550

Parallel Port(s)

on-board, LPT1

Keyboard(s)

Manufacturer: AT&T
Interface: PS/2
# of keys: 101
Jumper/Switch Settings:
n/a

Mice and Other Pointing Devices

Manufacturer: Logitech
Interface: PS/2
Jumper/Switch Settings:
n/a

LAN Adaptor(s)

Manufacturer: Cogent
Model name: EM960C EMaster+ PCI
Interface: PCI
Connectors: BNC, AUI, TP. place * next to tested
Jumper/Switch Settings:
n/a

Manufacturer: SMC
Model name: PCI EtherPower (SMC 8432)
Interface: PCI

Connectors: BNC, TP
Jumper/Switch Settings:
n/a

Sound Card(s)

Manufacturer: Creative Labs
Model name: Vibra 16
Interface: ISA
Jumper/Switch Settings:
All shorted execpt DAS0 and IS0 open

Monitor(s)

Manufacturer: Panasonic (AT&T logo)
Model name: TX-D1751NM
Size: 17"
Max resolution: 1280x1024x76Hz
Jumper/Switch Settings:

n/a

Note that only the firmware and hardware revision numbers specified are certified. Occasionally vendors may modify firmware or hardware characteristics without changing model numbers. Only systems with firmware and hardware revisions actually tested by NeXT have been certified.

Setup and Installation

Hardware Setup:

See above for individual setup instructions for each adaptor.

CMOS settings:

To Access:

Press F2 during startup
Settings:
Diskette A: 1.44MB
Diskette B: Not Installed
IDE Adapter 0 Master: (None)
IDE Adapter 0 Slave: (None)
IDE Adapter 1 Master: (None)
IDE Adapter 1 Slave: (None)
Video System: EGA/VGA
Memory Cache: External-enabled, CPU Internal-enabled
Memory Shadow:
    Video Shadow: Enabled
    Shadow Memory Regions: All disabled
Boot Sequence: A: then C:
NumLock: Auto
System Memory: 640K

Extended Memory: 31M

Integrated Peripherals:

- Serial Port 1: Com1 (3F8/IRQ4)
- Serial Port 2: Com2 (2F8/IRQ3)
- Parallel Port: 378/IRQ7
- Parallel Port Mode: Bi-Directional
- Diskette Controller: Enabled
- Primary IDE controller: Enabled
- Secondary IDE controller: Enabled
- PS/2 Mouse Port: Enabled

Monitor Settings:

- 640x480: 72Hz
- 800x600: 72Hz
- 1024x768: 70Hz

1280x1024: 72Hz
Auto-Detect Refresh Rate: Disabled
Feature Connector: Disabled

PCI IRQ Routing:
Selected IRQ for PCI slot 1: Auto
Selected IRQ for PCI slot 2: Auto

DRAM Parity: Disabled
Plug and Play OS: No
Reset Config Data: No
Large Disk access: DOS/Windows

Security: Disabled
Power saving: Disabled

ECU settings (EISA-bus systems only):
n/a

Special installation instructions:
Since this configuration does not include a CD-ROM drive, you will need to either install NEXTSTEP over a network or install a CD-ROM drive.

You will need the Generic S3 Display driver, 1736_S3_Generic_Display_Driver.pkg.compressed
This driver is available from NeXTanswers or NeXT Support.

If you choose to use the SMC network adapter, you will need the DECchip21140 network driver, 1926_DECchip21140NetworkDriver.pkg.compressed.

This driver is available from NeXTanswers or NeXT Support.

Driver settings:
Use Configure.app to load and configure the following drivers:
Display
    S3 Generic PCI Display Driver
Network
    Cogent EM960 PCI Ethernet Adapter
SCSI
    Adaptec 2940 SCSI Driver
Audio
    SoundBlaster16
        DMA Channels: 1 5
        I/O Ports: 0x0220-0x0233 0x330-0x331
        IRQ Levels: 5
Other

ISA/EISA Bus Support(ver 3.30)
PCI Bus Support(ver 3.30)
PS/2 Style Keyboard (ver 3.30)
Floppy Disk Drive (ver 3.30)
On Board Serial Ports (ver 3.30)
On Board Parallel Port (ver 3.30)

Known Problems

The Sound Blaster 16 drivers work for sound playback with the Sound Blaster Vibra card. However, if the input gain settings in Preferences are adjusted, then you will lose the ability to record.

The work around is to go into terminal and type the following:

"dremove NeXT1 MicrophoneGain"

Then reboot. This should re-enable recording

See Also: (None)