

# **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: Seagate  
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 except 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)**