

# **NEXTSTEP for Intel Processors Tested Compatible System**

**Title:** Optimal 120SB  
**Last Updated:** November 13 1995  
**Effective Date:** November 14th 1995  
**Tested with:** 3.3

**Product Vendor:**  
Optimal Object, Inc.

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### **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:

Optimal Object reports testing a system configuration consisting of the following components:

*Summary information only. Contact Optimal Object for more specific configuration information*

### System CPU Board(s)

CPU:	Intel Pentium, 120MHz
RAM:	64MB maximum tested
ISA slots:	3
PCI slots:	3

### SCSI Controller(s)

Manufacturer: Adaptec  
Model name: 2940  
Interface: PCI

### **CD-ROM Drive(s)**

Manufacturer: Plextor  
Model name: Quad  
Interface: SCSI

### **Hard Drive(s)**

Manufacturer: Seagate  
Interface: SCSI

Size: 1200MB

### **Graphics Adaptor(s)**

Manufacturer: ATI

Model name: MACH64

Video RAM: 2MB

RAM Type: VRAM, 70ns

Interface: PCI

### **Serial Port(s)**

Ports: 2

UART: 16550A

**Parallel Port(s)**

on-board, LPT1

**Keyboard(s)**

Manufacturer: Lite-On  
Model name: 101 Key Keyboard  
Interface: AT  
# of keys: 101

**Mice and Other Pointing Devices**

Manufacturer: Logitech

Model name: Deluxe Bus

Interface: Bus

### **LAN Adaptor(s)**

Manufacturer: Cogent

Model name: Emaster+ PCI

Interface: PCI

Connectors: \*TP

*\* Adaptor tested with this connector*



**Sound Card(s)**

Manufacturer: Creative Labs  
Model name: Sound Blaster  
Interface: ISA

**Monitor(s)**

Manufacturer: Samsung  
Model name: SyncMaster  
Size: 17"  
Max resolution: 1280x1024x75

*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 Del while message is displayed

#### **Settings:**

STANDARD CMOS SETUP

Date  
Time  
Primary Master       None  
Primary Slave        None  
Secondary Master     None  
Secondary Slave       None  
Drive A:            1.44M, 3.5in  
Drive B:            None  
Video:              EGA/VGA  
Halt On:            All Errors

BIOS FEATURES SETUP

Virus Warning : Disabled  
CPU Internal Cache : Enabled  
External Cache : Enabled  
Quick Power On Self Test : Enabled  
Boot Sequence : A,C  
Swap Floppy Drive : Disabled  
Boot Up Floppy Seek : Disabled  
Boot Up NumLock Status : On  
Boot Up System Speed : High  
Gate A20 Option : Fast  
Typematrice Rate Setting : Disabled  
Typematic Rate (Chars/Sec) : 6

Typematic Delay (Msec) : 250  
Security Option : Setup

Video BIOS Shadow : Enabled  
C8000-CBFFF Shadow : Disabled  
CC000-CFFFF Shadow : Disabled  
C0000-D3FFF Shadow : Disabled  
D4000-D7FFF Shadow : Disabled  
D8000-DBFFF Shadow : Disabled  
DC000-DEFFF Shadow : Disabled

CHIPSET FEATURES SETUP

DRAM RAS# Precharge Time : 4  
DRAM Leadoff Timing : 7/5  
DRAM RAS to Cas Delay : 3  
DRAM Read Burst Timing : x2222  
DRAM Write Burst Timing : x3333  
PCI Bursting : Enabled  
8 Bit I/O Recovery Time : 2  
16 Bit I/O Recovery Time : 1  
System BIOS Cacheable : Enabled  
Video Bios Cacheable : Enabled

IDE HDD Block Mode : Disabled  
IDE Primary Master PIO : Disabled

IDE Primary Slave PIO : Disabled  
IDE Secondary Master PIO : Disabled  
IDE Secondary Slave PIO : Disabled  
On-Chip Primary PCI IDE : Disabled  
On-Chip Secondary PCI IDE : Disabled  
PCI Slot IDE 2nd Channel : Disabled

Onboard FDD Controller : Enabled  
Onboard Parallel Mode : SPP Mode  
Onboard Parallel Port : 378H  
Onboard Serial Port 1 : Com1  
Onboard Serial Port 2 : Com2

## POWER MANAGEMENT SETUP

Power Management	: Disabled
PM Control by APM	: Yes
Video off Method	: Bland screen

Doze Mode	: Disable
Standby Mode	: Disable
Suspend Mode	: Disable
HDD Power Down	: Disable

IRQ3 (Wake-up Event)	: ON
IRQ4 (Wake-Up Event)	: ON
IRQ8 (RTC Alarm)	: OFF



IRQ12 (Wake-Up Event) : ON

COM Ports Accessed : ON

LPT Ports Accessed : ON

Drive Ports Accessed : OFF

IRQ3 (COM2) : OFF

IRQ4 (COM1) : OFF

IRQ5 (LPT 2) : OFF

IRQ6 (Floppy Disks) : OFF

IRQ7 (LPT1) : OFF

IRQ8 (RTC Alarm) : OFF

IRQ9 (IRQ2Redir) : OFF

IRQ10 (Reserved) : OFF

IRQ11 (Reserved)	: OFF
IRQ12 (PS/2 Mouse)	: OFF
IRQ13 (Coprocessor)	: OFF
IRQ14 (Hard Disk)	: OFF
IRQ15 (Reserved)	: OFF

#### PCI CONFIGURATION SETUP

Slot 1 Using INT#	: AUTO
Slot 2 Using INT#	: AUTO
Slot 3 Using INT#	: AUTO
Slot 4 Using INT#	: AUTO

1st Available IRQ	:	10
2nd Available IRQ	:	11
3rd Available IRQ	:	9
4th Available IRQ	:	12
PCI IRQ Activated By	:	Level
PCI IDE IRQ Map To	:	ISA

### **ECU settings (EISA-bus systems only):**

n/a

### **Special installation instructions:**

## **Driver settings:**

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

Display

ATIMach64DisplayDriver

Pointing Device

BusMouse

IRQ Levels: 5

Network

DECchip21040NetworkDriver

Audio

MVJazz16AudioDriver

DMA Channels: 1 7

IRQ Levels: 10

SCSI

Adaptec2940SCSIDriver

Other

SerialPorts

Floppy Disk

PS2Keyboard

PCIBus

EISABus

ParallelPort

**Known Problems**

**See Also:**      (None)