

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

**Title:** Toshiba Tecra 720CDT  
**Last Updated:** August 20 1996

**Product Vendor:** BIFROST WORKSTATIONS, INC.  
108509 Richmond Avenue, Suite 270  
Houston, Texas 77042  
713.952.9949

## **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

The Toshiba Tecra 720 CDT driver has been written by BiFrost Workstations, Inc. In order to obtain this driver, you must either buy the laptop from BiFrost and receive the driver for FREE or license the driver for a fee. Please contact BiFrost for more information.

**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:

Daniel L. Kramer reports testing a system configuration consisting of the following components:

*Summary information only. Contact Daniel L. Kramer for more specific configuration information*

### System CPU Board(s)

CPU: Intel Pentium, 133MHz  
RAM: 80MB maximum tested

### SCSI Controller(s)

Manufacturer: Adaptec  
Model name: SlimSCSI  
Interface: PCMCIA

### CD-ROM Drive(s)

Manufacturer: Toshiba  
Model name: CD-ROM Drive

### Hard Drive(s)

Manufacturer: Toshiba

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

Manufacturer: Chips and Technologies  
Video RAM: 2 MB  
RAM Type: ?  
Interface: PCI

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

Ports: 2  
UART: 16550A

### **Parallel Port(s)**

### **Keyboard(s)**

Manufacturer: Toshiba  
Model name: built-in keyboard  
Interface: PS/2  
# of keys: 101

### **Mice and Other Pointing Devices**

Manufacturer: Toshiba  
Model name: onboard pointing device  
Interface: PS/2

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

Manufacturer: 3COM  
Model name: Etherlink III PCMCIA card

**Sound Card(s)**

Manufacturer: Toshiba  
Model name: Onboard  
Interface: ISA

**Monitor(s)**

Manufacturer: Toshiba  
Model name: Tecra 720 CDT onboard screen  
Size: 12.1"  
Max resolution: 1024x768

*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:**

**Settings:**

To Access:           press escape during boot

BIOS version = 5.50

MEMORY

Total     = 16384KB

DISPLAY

Display Adaptor = VGA Compatible  
LCD Display Colors = 256K Colors  
Power On Display = Internal/External  
Text Mode Stretch = Enabled

PASSWORD

Not Registered

HARD DISK

Internal HDD  
Mode = Enhanced IDE(Normal)

BATTERY

Battery Save Mode = Full Power  
\*BATTERY SAVE OPTIONS  
Processing Speed = High  
CPU Sleep Mode = Enabled  
Display Auto Off = 30min  
HDD Auto Off =30min  
LCD Brightness =Bright  
Cooling Method =Performance

OTHERS

Power-up Mode =Boot  
CPU Cache = Enabled  
\*OPTION  
Write Policy = Write-back

L2 Cache = Enabled  
Auto Power On = Disabled  
\*OPTIONS  
ALarm Time = Disabled  
Alarm Volume = High  
\*ALARM VOLUME OPTIONS  
Low Battery Alarm = Enabled  
Panel Close Alarm = Enabled  
System Beep = Enabled  
Keyboard = Layout/Fn  
\*KEYBOARD  
Int Keyboard Key Layout  
= Normal  
Ext Keyboard "Fn" key equivalent  
= Disabled  
Boot Priority = FDD>HDD  
Pointing Devices = Auto-Selected  
PC Card Controller Mode = PCIC Compatible  
DISPLAY  
VGA Segment Address = E400H-EFFFH

#### I/O PORTS:

Serial = COM1 (3F8H/IRQ4)  
Infrared = Not Used  
Built-in Modem = COM2 (2F8H/IRQ3)  
Parallel = LPT1 (378H/IRQ7/CH3)  
\*OPTIONS  
Mode = ECP  
DMA = Channel 3

Sound = Enabled  
\*SOUND SYSTEM  
WSS I/O Address = 534H  
SBPro I/O Address = 220H  
Synthesizer I/O Address = 388H  
WSS & SBPro IRQ Level = IRQ9  
WSS & SBPro DMA  
    Playback = (same as record)  
    Record = Channel 0  
Control I/O Address = 120H

PCI BUS  
PCI BUS = IRQ Not Used

DRIVES I/O  
Internal HDD = Primary IDE(1F0H/IRQ14)  
Int Selectable Bay  
    = Secondary IDE(170H/IRQ15)

FLOPPY DISK I/O  
Floppy Disk = (3F2H/IRQ6/CH2)

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

n/a

### **Special installation instructions:**

#### **Driver settings:**

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

-----Boot drivers-----

Bus EISABus

I/O Ports: 0x00-0x0f 0x20-0x21 0x40-0x4b 0x70-0x71 0x81-0x8F 0x92-0x92  
0xc0-0xcf

Class Names: EISAResourceDriver  
Driver Version: PROJECT:kernbus-17.4  
IRQ Levels: 2  
PnP: No

Bus PCIBus

Driver Version: PROJECT:kernbus-13  
Class Names: PCIResourceDriver

Bus PCMCIABus

Driver Version: PROJECT:kernbus-17.4  
Class Names: PCMCIAResourceDriver

Other PCIC

I/O Ports: 0x3E0-0x3E1  
Driver Version: PROJECT:drvIntel82365PCMCIA-9  
IRQ Levels: 5

Keyboard PS2Keyboard

Interface: 3  
I/O Ports: 0x60-0x65  
Class Names: PS2Controller PS2Keyboard  
Handler ID: 0  
Driver Version: PROJECT:kbdmicedrivers-16  
IRQ Levels: 1

Disk Floppy

DMA Channels: 2  
Character Major: 41



I/O Ports: 0x3f2-0x3f7

Class Names: FloppyController FloppyDisk

Driver Version: PROJECT:floppyDriver-5.4

IRQ Levels: 6

Block Major: 1

Serial ISASerialPort, Instance0

I/O Ports: 0x3f8-0x3ff

Class Names: ISASerialPort

Bus Type: EISA

Driver Version: PROJECT:drvISASerialPort-3.1

IRQ Levels: 4

Serial ISASerialPort, Instance1

I/O Ports: 0x2f8-0x2ff

Class Names: ISASerialPort

Bus Type: EISA

Driver Version: PROJECT:drvISASerialPort-3.1

IRQ Levels: 3

SCSI AIC6X60SCSI

Default Table: AIC\_PCMCIA

I/O Ports: 0x340-0x35f

Class Names: AIC6X60

Bus Type: PCMCIA

Driver Version: PROJECT:drvAdaptec6X60-6

IRQ Levels: 11

Disk EIDE, Instance0

Multiple Sectors: Yes

IOCHRDY Support: No

Character Major: 15

Disk Geometry: Yes  
I/O Ports: 0x1f0-0x1f7  
Class Names: IdeDisk IdeController AtapiController  
Block Major: 3  
Driver Version: PROJECT:ideDriver-109  
IRQ Levels: 14  
Address Mode: LBA  
EIDE Support: Yes

Disk EIDE, Instance1

Multiple Sectors: Yes  
IOCHRDY Support: No  
Character Major: 15  
Disk Geometry: Yes  
I/O Ports: 0x170-0x177  
Class Names: IdeDisk IdeController AtapiController  
Block Major: 3  
Driver Version: PROJECT:ideDriver-109  
IRQ Levels: 15  
Address Mode: LBA  
EIDE Support: Yes

-----Active drivers-----

Pointing Device PS2Mouse

Inverted: No  
Resolution: 150  
Force Detection: Yes  
Class Names: PS2Mouse  
Driver Version: PROJECT:drvPS2Keyboard-2

IRQ Levels: 12

#### Parallel ParallelPort

Pre-Load: RemovePPDev

I/O Ports: 0x378-0x37f

Port Count: 1

Driver Version: PROJECT:paralleldrivers-10

IRQ Levels: 7

Minor Device Number: 0

#### Serial PortServer

Class Names: PDPpseudo PortServer

Maximum Sessions: 16

Port Count: 2

Driver Version: PROJECT:drvPortServer-6

#### Display CT65550DisplayDriver

Memory Maps: 0xff000000-0xff1fffff 0xa0000-0xbffff 0xc0000-0xcffff

Display Mode: Height: 768 Width: 1024 Refresh: 60Hz ColorSpace:

#### RGB:555/16

Auto Detect IDs: 0x00e0102c

I/O Ports: 0x3C0-0x3CF 0x3D4-0x3DA

Bus Type: PCI

Driver Version:

VGA Memory Maps: 0xa0000-0xbffff 0xc0000-0xcffff

#### Audio MicrosoftSoundSystem

DMA Channels: 0

I/O Ports: 0x530-0x537 0x388-0x38b 0x0220-0x22f 0x200-0x207

Driver Version: PROJECT:audiodrivers-43

IRQ Levels: 9

#### Other CS4232AudioMixer

Driver Version:

Class Names: CS4232AudioMixer

Network XircomIpsNetworkDriver

Memory Maps: 0x0D0000-0xD0FFF

I/O Ports: 0x300-0x30F

Bus Type: PCMCIA

Driver Version: PROJECT:drvXircomIps-3

IRQ Levels: 10

### **Known Problems**

CDPlayer requires a custom CS4232 driver and mixer package to work properly with the onboard CD-ROM.

**See Also:**      **(None)**