NEXTSTEP for Intel Processors

Title: Bus Logic BT-445 SCSI Adapter
Entry Number: 1547
Last Updated: <<Date November 15, 1995>>

Product Vendor:
Bus Logic, Inc.
4151 Burton Drive
Santa Clara, CA 95054
USA

+1 (408) 492 9090 phone
+1 (408) 492 1984 bulletin board system

WWW: http://www.buslogic.com/

Keywords: Bus Logic, 445, SCSI, VLB

Usage Commentary:
The Bus Logic BT-445 line of SCSI controllers provides a bus-mastering VESA LocalBus SCSI interface for NEXTSTEP for Intel Processors.

Release 3.3

See NeXTanswers document 1771_BusLogic_family_Driver_Overview.rtf

Release 3.2
The BT-445C requires the Bus Logic SCSI driver, now available from NeXTanswers via anonymous FTP (ftp.next.com) or email (nextanswers@next.com).   Request NeXTanswers documents 1685_BusLogicSCSIDriver.pkg.compressed and 1686_BusLogicSCSIDriver.ReadMe.rtf.

While other models in the BT-445 line have been used successfully with the Bus Logic SCSI driver by our customers, the driver was written specifically for the BT-445C, and this is the only model tested by NeXT.   If your card is a different model and does not work with the Bus Logic SCSI driver, use Update 1 of the Adaptec 154x SCSI driver instead. Request NeXTanswers documents 1521_Adaptec154xDriver.pkg.compressed and 1520_Adaptec154xDriver.ReadMe.rtf, and see the note about firmware restrictions under "Known Problems" below.   If you are installing a system with the update, request document 1541_Installation_Requiring_Adaptec_Driver_Update.rtf as well.

Setup and Installation:

If you plan to use the BT-445 with a pre-installed system, first obtain the Bus Logic SCSI driver, then install and configure the driver according to the instructions in its ReadMe file. You can use the default driver settings.

If you are installing a system with the BT-445, you will need to use the Bus Logic SCSI driver as a loadable boot driver.   This requires a NEXTSTEP-formatted floppy with the plain driver, BusLogicSCSIDriver.config, in the /usr/Devices folder.   You can create such a floppy yourself if you have access to a working NEXTSTEP system, or obtain one from

NeXT Technical Support.

Remove jumpers W15 and W16 to disable the floppy controller on the BT-445.

Known Problems:
Release 3.1:
· The BT-445 requires a driver update which is available only for NEXTSTEP Release
  3.2.   Therefore Release 3.1 does not support the BT-445.

Release 3.2:
· While the integrated floppy controller on the BT-445 may work, it is not officially
  supported under NEXTSTEP Release 3.2.

· Improper SCSI termination can cause strange, unreproducible errors. For maximum
  reliability be certain that the first and last devices on the SCSI bus are terminated.
  For more information on this topic see NeXTanswers document 1109_SCSI_Setup.

· If you are using the Adaptec 154x SCSI driver because the Bus Logic SCSI driver
  does not support your card, you will need to change your Bus Logic BIOS and

firmware to the following versions:
BIOS: 4.50
firmware: 3.31
Bus Logic technical support will assist you with this.

See also:
1109_SCSI_Setup
1118_Bus_Logic_BT-747_SCSI_Adapter.rtfd
1362_Bus_Logic_BT-54x_SCSI_Adapter.rtfd
1520_Adaptec154xDriver.ReadMe.rtf
1521_Adaptec154xDriver.pkg.compressed
1541_Installation_Requiring_Adaptec_Driver_Update.rtf
1685_BusLogicSCSIDriver.pkg.compressed
1686_BusLogicSCSIDriver.ReadMe.rtf