

NEXTSTEP for Intel Processors

Title: Intel EtherExpress Ethernet Adapter

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Product Vendor:

Intel

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WWW: <http://www.intel.com/>

Keywords: Intel, Ethernet, ISA, EtherExpress

Overview:

The Intel EtherExpress ethernet adapter provides networking in an ISA slot with minimal installation

hurdles.

With this updated driver, you can connect your computer to your network using your Intel EtherExpress network adapter's BNC, AUI, or RJ-45 connector.

Release 3.3

See NeXTanswers document 1792_Intel_EtherExpress16_Driver_Overview.rtf

Release 3.1:

Update 1 of the Intel EtherExpress driver is now available from NeXTanswers via anonymous FTP (ftp.next.com) or email (nextanswers@next.com). Request document numbers 1286_EtherExpressDriver.pkg.compressed and 1285_EtherExpressDriver.ReadMe.rtf. This update provides improved support for the various versions of the Intel EtherExpress. The following models of the EtherExpress network adapter have been tested with this driver:

- EtherExpress16, first generation (BNC and AUI connectors)
- EtherExpress16TP, first and second generations (RJ-45 and AUI connectors)
- EtherExpress16C (BNC, RJ-45, and AUI connectors)

This driver is included with the NEXTSTEP Release 3.2 User CD.

In addition, the second generation of the EtherExpress16 is anticipated to work, but has not been available for testing.

Setup and Installation:

Once installed, enter this adapter into your computer's configuration with the Configure application.
No special jumper settings are required.

Known Problems:

Release 3.1 and 3.2:

- There are three versions of the Intel EtherExpress card in existence. The Release 3.1 NEXTSTEP EtherExpress Driver supports the first two cards and only the THIN and AUI configurations of the third card. Update 1 of the Intel EtherExpress driver (see above) fixes this

problem. The cards may be identified by labeling information on the card as follows:

- 1) Intel EtherExpress 16TP, 305648-006, equipped with AUI, TPE
- 2) Intel EtherExpress 16, 308710-002, equipped with AUI, THIN
- 3) Intel EtherExpress 16C, 308429-001, equipped with AUI, TPE, THIN

Where AUI, sometimes called DIX, is for Thick Ethernet and uses a 15-pin D-shell connector. TPE stands for Twisted Pair Ethernet and uses a RJ45-style connector. THIN Ethernet, also called Cheapernet, uses a BNC connector.

Some Intel EtherExpress 16 cards can be configured into a state where they "think" they are EtherExpress 16TP cards. If you are unable to use the BNC Thin Ethernet connector on your EtherExpress 16, you may be encountering this problem. To fix this problem, you must boot under DOS and reconfigure your card using Intel's SOFTSET utility, as follows:

SOFTSET /BART

Then run the SOFTSET utility a second time to ensure that your card's other settings are correct:

SOFTSET

(You may wish to note the ethernet ID for future reference while doing this.) When you reboot, NEXTSTEP should be able to use the card's BNC connector, provided that this connector is selected in Configure.app.