

NEXTSTEP for Intel Processors

Title: 3COM Etherlink III Ethernet Adapter

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Product Vendor:

3Com Corporation
5400 Bayfront Plaza
PO Box 58145
Santa Clara, California
95052-8145 USA

US & Canada toll-free pre-sales, product information: +1 (800) NET-3COM

Fax back system: +1 (408) 727-7021

US 24 hour BBS (24/96 8/1/N): +1 (408) 980-8204

France 24 hour BBS (24/96/14.4 8/1/N): +(33) (1) 69 86 69 54

UK 24 hour BBS (12-38.4k 8/1/N): +(44) (0) 628 897 086

WWW: <http://www.3com.com/>

Keywords: 3COM, Etherlink III, 3C509, Ethernet, ISA, Networking

Usage Commentary:

The 3COM Etherlink III 3C509 provides a 16 bit ethernet interface to thin or thick networks and is available in the following versions:

3C509	ISA	BNC, AUI
3C509TP	ISA	RJ-45, AUI
3C509COMBO	ISA	BNC, AUI, RJ-45
3C509TPO	ISA	RJ-45 Only

Setup and Installation:

- The 3COM Etherlink III has small buffers which can cause the board to drop incoming NFS packets resulting in slow NFS performance. To improve performance with Ethernet boards that have small buffers, modify the NFS mount options for often used servers, such as the server containing home directories, to match the characteristics of these boards. Launch NFSManager and do the following. Use the Expert Options button in the Imported Directories window to set the Read and Write buffer sizes to 1024 bytes.

This adapter is not recommended for use in NFS intensive environments.

- Be sure to run the appropriate hardware configuration utility to verify settings on the card match those in Configure. Run 3COM's **3C509.EXE** DOS utility to edit the hardware settings.
- Although this card can present itself as an EISA card to an EISA bus system, it should be configured as an ISA card.

Known Problems:

- 10BASE-T (twisted pair) is not supported in NEXTSTEP 3.2. It is supported in NEXTSTEP 3.3
- Multiple network cards within a single system is not supported.

- If the 3COM Etherlink III adapter is not present in a configured system or the settings for the Port Address and/or IRQ do not match what is in Configure.app, the system will hang during boot up while performing a probe. To work around this problem, simply boot using **config=Default** and use Configure.app to remove/modify this driver.

For NEXTSTEP Release 3.3, please refer to NeXTanswers document
1757_3COM_EtherLink_III_Driver_Overview.rtf

See Also:

1492_NFS_Performance_Tuning, *NEXTSTEP In Focus Winter 1994*