

*PC/TCP Kernel
for ND-110683
Installation Description
ND-891024.1 EN*



Introduction

This publication describes how to install the PC/TCP** Kernel Network software from FTP Software Inc. on your PC. It is a supplement to the PC/TCP Release Notes delivered from FTP Software Inc.

The product, PC/TCP Kernel for ND-110683, consists of the software and the documentation used with an Ethernet Adaptor/PC (Etherlink II ***).

If you are not using the ND-110683 adaptor in your PC, consult the appropriate installation description.

It is recommended that the installation be performed by the system administrator.

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*** Etherlink II, Etherlink Plus and Etherlink/MC are registered trademarks of the 3Com corporation.

NOTE !

Please read the PC/TCP Release Notes before performing the installation.

Installation

Copying from the PC/TCP product floppy.

If the PC/TCP Kernel is installed together with S-Link (ND-230059) install the PC/TCP software after S-Link and in the subdirectory given by the S-Link installation. (Refer to the Installation Description for S-Link).

Otherwise create a subdirectory for the PC/TCP software.

In the following example this subdirectory is referred to as

`c:\nd-ows\comms.`

Operator input is written in *italics* and system response in **bold text**.

To complete a command press the RETURN at the end of each command line.

~~Insert~~ the floppy into a floppy drive and copy all files to the selected directory by typing the following:

```
c:copy a:.* c:\nd-ows\comms
```

For additional information see section 1.2 of the PC/TCP Release Notes.

System Files

The Autoexec.bat File:

In order for the kernel software to be loaded each time you reboot your system, use a text editor (edlin, notepad, etc.) and append the following line to the autoexec.bat file:

```
c:\nd-ows\comms\3c503 -t 4 -u 0
```

If the Kernel is being installed along with S-Link, then S-Link loads the Kernel.

The Config.sys File:

In order for the configuration device drivers to be loaded into memory each time you reboot your system, append the following two lines to the config.sys file:

```
DEVICE=c:\nd-ows\comms\3c503.sys  
DEVICE=c:\nd-ows\comms\ipcust.sys
```

Please refer to the PC/TCP Release Notes section 1.3 and to your DOS Reference Manual for more information about the autoexec.bat and config.sys files.

A Minimum Configuration

In the lines below, substitute the values that are underlined with the values appropriate for your configuration. Type the lines and enter them one by one or all together using a batch file.

A short description of these parameters is given following each line. For additional information please refer to section 1.4 of the PC/TCP Release Notes

The **ifconfig** command is used to configure your hardware interface driver. The **ipconfig** command is used to configure different values for the protocols device driver. The parameter values used depend on your PC's configuration.

Make sure you are in the subdirectory `\nd-ows\comms` (or the directory where the PC/TCP files reside), and at the DOS prompt type the following lines:

```
c:>. nfig 3c503.sys 0.0.0.0
```

where 0.0.0.0 represents the Internet address and will consist of a four part number that will look like (for example) 130.67.12.46

```
c:ifconfig 3c503.sys dma 1
```

dma 1 represents the dma channel and the available values are:

- dma 1
- dma 2
- dma 3

The available DMA channels vary depending on the adaptor type, please refer to the Release Notes.

```
c:ifconfig 3c503.sys int 3
```

int 3 represents the interrupt vector for your network interface. Substitute this for the value that applies to your system.

```
c:ifconfig 3c503.sys base 300
```

300 is the I/O base address for your network interface. Fill in the appropriate value for your system.

c:ifconfig 3c503.sys port 2

2 is used to specify that you are using Cheapernet. The value for (thick) Ethernet is 0.

NOTE!

If this option (port) is not set properly, a non-user-servicable fuse can be blown on the interface.

c:ifconfig 3c503.sys subnet Q

Q represents the number of subnet bits in your LAN, and is used if your network is divided into subnetworks. Subnets and internetwork addresses are described in section 4.6 of the PC/TCP User's Guide.

If you are using gateway(s), (you have hosts on different LANs), then the gateway address must also be set using the gateway option as described in section 3.4 of the PC/TCP Kernel Installation and Reference Guide.

Finally type the following lines:

```
c:ipconfig ipcust.sys hosttable c:\nd-ows\comms\hosts  
c:ipconfig ipcust.sys window 512  
c:ipconfig ipcust.sys lowwindow 256
```

Unloading the TCP/IP Kernel

If you need to terminate TCP/IP sessions (to free memory space or for any other reason), type the following command:

```
c:inet unload
```

Section 3.3 of the PC/TCP Release Notes contains detailed information.