PCI-P16X16

User Manual

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Tables of Contents

1.	Linux Software Installation		
	1.1	LINUX DRIVER INSTALLING PROCEDURE	3
	1.2	LINUX DRIVER UNINSTALLING PROCEDURE	3
2. PCI-P16X16 Demo Programs For Linux		I-P16X16 Demo Programs For Linux	4
	2.1	DEMO CODE "DIO.C"	4

1. Linux Software Installation

The PCI-P16R16/P16C16/P16POR16 can be used in linux kernel 2.4.X and 4.X.X. For Linux O.S, the recommended installation and uninstall steps are given in Sec $1.1 \sim 1.2$

1.1 Linux Driver Installing Procedure

- Step 1: Copy the linux driver "ixpci.tar.gz" (version 0.7.4 or later version) in directory "NAPDOS\Linux" of the CD or from our company website http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/linux/ixpci.tar.gz to the linux host that you want to install driver.
- Step 2: Decompress the tarball "ixpci.tar.gz".
- Step 3: Type `cd' to the directory containing the package's source code and type ./configure' to configure the package for your system.
- Step 4: Type `make' to compile the package.
- Step 5: Type `./ixpci.inst' to install the PCI driver module and build the device file "ixpciX" in the device directory "/dev" automatically.

1.2 Linux Driver Uninstalling Procedure

- Step 1: Type `cd' to the directory containing the package's source code.
- Step 2: Type `./ixpci.remove' to remove the PCI driver module.

2. PCI-P16X16 Demo Programs For Linux

All of demo programs will not work normally if PCI linux driver would not be installed correctly. During the installation process of PCI linux driver, the install-scripts "ixpci.inst" will setup the correct kernel driver. After driver(version 0.7.4 or the later driver version) compiled and installation, the related demo programs, declaration header files for different development environments are presented as follows.

Table 3.1

Driver Name	Directory Path	File Name	Description
Ixpci-0.7.4 (or later version)	examples/ pcip16x16	dio.c	DO/DI Demo

2.1 Demo code "dio.c"

This demo program is used to show the DI/DO.