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## FriendlyNet™ Fast Ethernet Switch

### FS4004DS/FS4008DS

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# READ ME FIRST

Thank you for purchasing the FriendlyNet Fast Ethernet Switch. This document contains important information regarding the FriendlyNet Fast Ethernet Switch. Please review both sides before proceeding with the installation.

## Auto-Negotiation and Full Duplex Operation

The FriendlyNet Fast Ethernet Switch supports NWay auto-negotiation. The auto-negotiation feature is **enabled** as a default setting on all ports.

The NWay auto-negotiation sequence attempts to negotiate a network connection at the fastest possible speed, including Full Duplex operation. Full Duplex operation is indicated by the **FDX** LED on the FriendlyNet Fast Ethernet Switch's front panel.

- ▲ **Important:** Make sure that both ends of the connection are set to operate at the same operating mode (Half or Full Duplex).

## Connecting a PC or Macintosh to the FriendlyNet Switch

### Network Cards That Do Not Support Full Duplex Operation

If you are using a network interface card that does **not** support Full Duplex operation, you do not need to do anything. The FriendlyNet Fast Ethernet Switch will automatically negotiate to Half Duplex operation.

### Network Cards That Support NWay Auto-Negotiation

If you are using a network interface card that supports NWay auto-negotiation, ensure that the driver can operate in Full Duplex mode. Allow auto-negotiation to configure the network card to Full Duplex mode.

## Identifying Duplex Operation Errors

Symptoms of a duplex operation mismatch are:

- High numbers of collisions
- Very slow transfer rates

# Attention Macintosh Users!

## AsantéFAST 10/100 PCI Cards

If you are using an AsantéFAST 10/100 PCI card in your Macintosh and are connecting it to a FriendlyNet Fast Ethernet Switch, install the 2.4 driver included in this package. The 2.4 driver will configure the card to operate in Full Duplex mode.

## AsantéFAST 10/100 NuBus Cards

If you are using an AsantéFAST 10/100 NuBus card in your Macintosh and are connecting it to a FriendlyNet Fast Ethernet Switch, please contact Asanté Technical Support (1-800-622-7464) for a new version of the driver.

## Port Setting

The FriendlyNet Fast Ethernet Switch has a DIP switch on the unit's back panel that allows you to manually configure each port for 10Mbps/Half Duplex operation.

In most cases, you will not have to configure the DIP switch since the default setting for each port is NWay auto-negotiation **enabled** ("normal" setting, see Figure 1-1).

However, some older Ethernet network cards may not provide the proper link pulses required to auto-negotiate a proper link between the card and the FriendlyNet Fast Ethernet Switch. In situations such as these — where proper link integrity cannot be established — you will need to manually set the DIP switch for the specific port to **10Mbps/Half Duplex** mode.

## Manually Configuring 10Mbps/Half Duplex

To manually configure a port for 10Mbps/Half Duplex mode:

- 1 Power off the FriendlyNet Fast Ethernet Switch.
- 2 Locate the FriendlyNet Fast Ethernet Switch's DIP switch (located on the unit's back panel).
- 3 Determine which port you want to manually configure for 10Mbps/Half Duplex mode.
- 4 Move the switch corresponding to that port to the "down" position. This configures the port for 10Mbps/Half Duplex mode. See Figure 1-1.

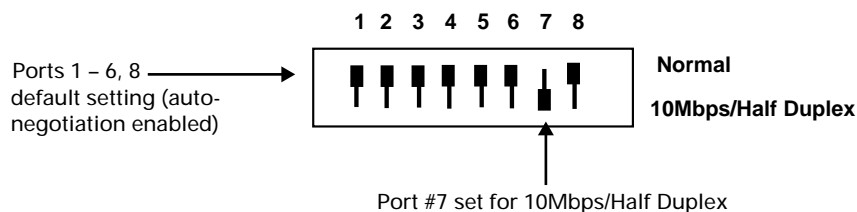


Figure 1-1 Manually configuring a port for 10Mbps/Half Duplex operation

- 5 Power on the FriendlyNet Fast Ethernet switch.
- 6 Restart the computer that is connected to the port that was just configured.

