

FastPort Configuration for PromICE

For FastPort Model MIL-3100FTX

The Milan/Digi FastPort is a network print server that allows PromICE to be connected and shared on a network.

Using the PromICE with the FastPort requires the serial cable be connected to the PromICE. The parallel port is not required, but makes downloading with LoadICE faster.

Installing the hardware

UNIX users:

On the bottom of the FastPort unit there should be a sticker with the Ethernet address on it. Locate the address and add the following line to your `/etc/ethers` file:

```
0:40:c8:3:70:98 fp1
```

where:

```
0:40:c8:3:70:98      The Ethernet address of the FastPort.  
fp1                 The "host name" you will call the FastPort.
```

1. Modify the hosts file located in the `/etc` directory

2. Add:

```
192.148.237.4 fp1
```

where:

```
192.148.237.4      The IP address you will use for your FastPort.  
fp1                 The "host name" you put in /etc/ethers
```

3. Connect the FastPort to the network as described in the FastPort User's Guide

4. Place switches 1,2, & 3 down and switch 4 up on the front of the FastPort.

5. Connect power to the FastPort. This will put the FastPort in Telnet Diagnostic Monitor mode.

6. Type the following substituting the hostname and Ethernet address you placed in the `/etc/ethers` file:

```
arp -s fp1 0:40:c8:3:70:98
```

7. Next, use telnet to connect to the FastPort:

8. `telnet fp1 2002`

This will allow you to bring up the connection with the FastPort monitor port so that it can be configured. Substitute your host name for "fp1".

9. Type "!" and answer 'yes' so you can enter the monitor

10. Use the 'l' command to set the IP address you selected into the FastPort.

11. Type 'S' to set the serial parameters for the serial port as follows:

```
baud rate      : 19200
flow           : none
data bits     : 8
parity        : none
stop bits     : 2
```

12. Type 'P' to set the parallel port parameters as follows:

```
mode           : standard
strobe-width  : 2.7
test page     : ASCII
bidirectional : disabled
```

13. Type 'C' for console configuration and select '1' to disable monitoring.

14. Type 'E' to enter Ethernet options. Type '2' to enable the link test.

15. Type 'N' to enter the Network protocols menu. Disable all protocols except TCP/IP.

16. Exit the terminal session.

17. Connect the PromICE serial and parallel connections to the FastPort ports.

NOTE: If the parallel connection is used, the serial connection must be used. Also, the parallel connection requires a modifier adapter (provided by Grammar Engine Inc) to use with the parallel cable. The modifier is a short ribbon cable with a male and a female DB25 connector at either end. The male end goes to the FastPort parallel port # 1 and the female end goes to the parallel port cable.

18. Power up the FastPort and PromICE. As part of the FastPort reset sequence, the serial and parallel connections are tested. This can leave PromICE in an unknown state. When the FastPort finishes its reset (the serial and parallel lights stop flashing), reset PromICE by pressing the button on the back of PromICE unit.

Windows 9x/NT users:

1. Modify the hosts file located in one of the following directories:

Windows 9x -> /windows/hosts (you may have to create the file).

Windows NT -> /winnt/system32/drivers/etc/hosts

2. Add:

```
0:40:C8:3:70:98    fp1
```

where:

```
0:40:C8:3:70:98    The IP address you will use for your FastPort.
```

```
fp1                The "host name" you put in /etc/ethers
```

3. Place all four switches in the down position
4. Connect a null modem serial cable from the PC to the FastPort's serial port, on the front of the FastPort.
5. Start Hyperterminal and set the port to 9600,8,N,1,ASCII. (This should be the default setting out of the box)
6. Configure the host serial connections to 9600,8,N,1,ASCII.
7. Power the FastPort.
8. Use the 'I' command to set the IP address you selected into the FastPort.
9. Type 'S' to set the serial parameters for the serial port as follows:

```
baud rate         :    19200
flow              :    none
data bits         :     8
parity           :    none
stop bits        :     2
```

10. Type 'P' to set the parallel port parameters as follows:

```
mode           : standard
strobe-width   : 2.7
test page      : ASCII
bidirectional  : disabled
```

11. Type 'C' for console configuration and select '1' to disable monitoring.
12. Type 'E' to enter Ethernet options. Type '2' to enable the link test.
13. Type 'N' to enter the Network protocols menu. Disable all protocols except TCP/IP.
14. Exit the terminal session.
15. Set the FastPort switches as follows:

1 - down; 2 - down; 3 - down; 4 - up;
16. Connect the PromICE serial and/or parallel connections to the FastPort ports.

NOTE: If the parallel connection is used, the serial connection must be used. Also, the parallel connection requires a modifier adapter (provided by Grammar Engine Inc) to use with the parallel cable. The modifier is a short ribbon cable with a male and a female DB25 connector at either end. The male end goes to the FastPort parallel port # 1 and the female end goes to the parallel port cable.

17. Power up the FastPort and PromICE. As part of the FastPort reset sequence, the serial and parallel connections are tested. This can leave PromICE in an unknown state. When the FastPort finishes its reset (the serial and parallel lights stop flashing), reset PromICE by pressing the button on the back of PromICE unit.

LoadICE Configuration

1. Create a LoadICE.ini file and add the following lines:

```
fastport=fp1
```

If you want to use the parallel port for fast download using LoadICE add:

UNIX users: ppbus=/dev/null

9x/NT users: ppbus=lpt1

9x/NT user's note that it the parallel port must have a valid ID (i.e. LPT1). It simply tells LoadICE to use the FastPort's parallel port and has no connection to the host's parallel port.

These commands will replace the serial and pponly commands in the LoadICE.ini file. Complete the LoadICE.ini file as documented in the Installation section of the PromICE User's Manual.

2. You may also want to add the following line to the LoadICE.ini file:

```
resetfp
```

This command resets the FastPort. The benefit to this command is that it allows you to recover from a hung connection without having to physically reset the FastPort. The disadvantage of this command is that it takes LoadICE longer to connect PromICE.

If required, use the command line switch '-rfp' to reset the FastPort from the command line rather than the LoadICE.ini file.

Breaking the AI transparent link using FastPort

Once the AI is put into transparent mode, the FastPort cannot break the link to connect with PromICE again unless PromICE AI is set to accept a single break character to break the AI. The standard configuration for the AI in the LoadICE.ini file is:

```
ailoc 10 19200
```

where:

10	AILOC address.
19200	Baud rate.

To allow the FastPort to break the transparent link, given the following example, you must add the following to the ailoc statement:

```
ailoc 10 19200 -1 0
```

where:

-1	Specifies no break character.
0	Tells PromICE not to ignore any interrupts before breaking the AI transparent mode.

Add the 'resetfp' command to the LoadICE.ini file. This causes the FastPort to send an interrupt through the serial link and break the transparent mode.

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