

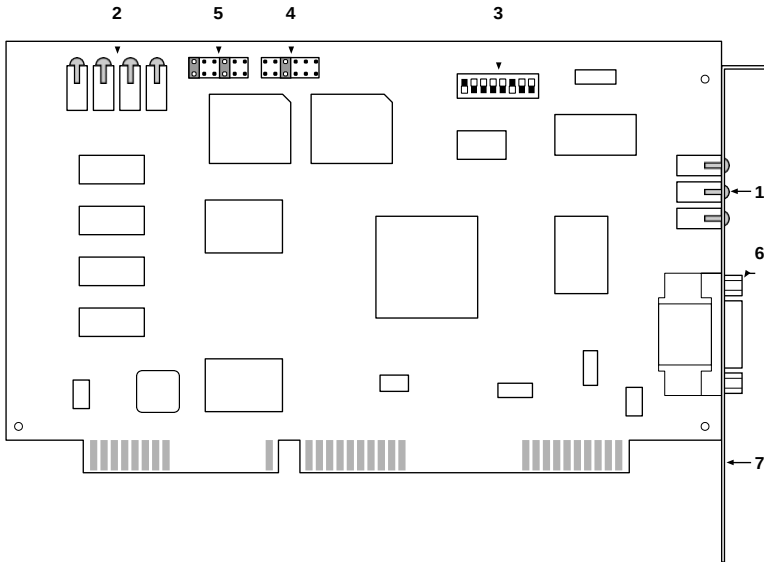
1 General Presentation**1.1 General**

The TSX FPC 10 module is used to connect an FTX 517 or CCX 57/77 type terminal on any machine fitted with a PC AT bus under DOS (version ≥ 3.1), OS/2, Windows 3.1x, Windows 95/98 or Windows NT.

The TSX FPC 10 module comprises five elements :

- A half format extension card which can be plugged into one of the available slots with a 16-bit connector (double connector)
- A diskette containing the OS/2 driver which is used for communicating with the card and the installation software for this driver (TSX FPC SS)
- A diskette containing the DOS and Windows 3.1x driver which is used for communicating with the card and the installation software for this driver (TSX FPC SD)
- A diskette containing the Windows 95/98 driver which is used for communicating with the card and the installation software for this driver (TSX FPC SW)
- A diskette containing the NT driver which is used for communicating with the card and the installation software for this driver (TSX FPC SN)

2.1 Description



This module comprises the following elements, among others :

- 1 Three LEDs on the front plate on the front panel :
 - A green (RUN) LED, which is lit when the module is operational
 - A red (ERR) LED, which is lit continuously if a serious error is detected on the module. It flashes during the self-tests which are carried out when the module is switched on, or if a minor error is detected (address error, etc).
 - A yellow (COM) LED, which is lit whenever the module is sending or receiving response type frames. It flashes during the self-tests which are carried out when the module is switched on.
- 2 Four diagnostic LEDs on the rear of the card, facing upwards (reserved for internal use).
- 3 Micro-switches (SW3) which are used to select the base address of the module in the I/O area of the PC.
- 4 A jumper (SW2) which is used to select the IRQ (Interrupt Request) level.
- 5 Jumpers (SW1) which are used to select the DMA (Direct Memory Access) channel using the DMA_RQ (DMA Request) jumper connected to the DMA_ACK (DMA Acknowledge) jumper.
- 6 One high density 15-pin female Sub-D connector for connecting the module to the mains supply using the TSX FP CE 030 cable.
- 7 A metal face plate, fixed on the card, for securing the card to the chassis.

2.2 Hardware Setup

2.2-1 Preparation

Before a TSX FPC 10 module and its driver can be installed in a terminal, it must be configured with the following parameters :

- The number of a free DMA channel (5, 6 or 7)
- The number of a free IRQ channel (3, 5, 10, 11 or 15)
- A base address which can be used to define the addresses occupied by the module (it occupies 16 consecutive addresses, starting from the base address in the I/O area of the PC). The base address, which is a multiple of 16 (10H), must be between 100H and 3F0H (example : 100H, 110H, 120H, etc).
- A network number between 0 and 7FH : network number 0 is only permitted if the network is a single segment network. The network number is selected when the relevant driver (DOS, Windows 3.1x, Windows 95/98, Windows NT or OS/2) is installed.
- A station number between 0 and 3FH. The station number is selected when the relevant driver (DOS, Windows 3.1x, Windows 95/98, Windows NT or OS/2) is installed.

The following default values are assigned on the card :

- DMA = 5
- IRQ = 10
- Base address = 210H (the module will therefore use addresses between 210H et 21FH by default).

If the default parameters are not taken by other terminal configuration cards, their use is recommended.

Before installing the TSX FPC 10 card in a terminal, the DMA and IRQ default values must be checked, and a check must also be made to ensure that none of the 16 addresses occupied by the module has already been reserved by other cards present in the terminal. If this is the case, the default values must be changed, taking into account the prohibited addresses specified in the table on the following page.

The table below shows

- the addresses occupied
- the corresponding DMA channel
- the corresponding IRQ channel
- the prohibited TSX FPC 10 base address

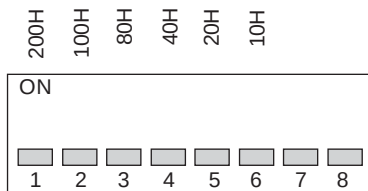
for the main peripheral devices or cards used :

Card or peripheral device	Addresses occupied	DMA channel	IRQ channel	Prohibited base address
LPT1	378H - 37FH	(*)	7	370H
LPT2	278H - 27FH	(*)	7	270H
COM1	3F8H - 3FFH	(*)	4	3F0H
COM2	2F8H - 2FFH	(*)	3	2F0H
COM3	3E8H - 3EFH	(*)	4	3E0H
COM4	2E8H - 2EFH	(*)	3	2E0H
VGA register	102H	(*)	9	100H
Hard disk	1F0H - 1F8H	(*)	14	1F0H
Diskette	3F0H - 3F7H	(*)	6	3F0H
TSX MAP PC74 card	200H - 207H	0	5	200H
TSX ETH PC10 card	320H - 327H	(*)	11	320H

(*) Irrelevant.

2.2-2 Selecting the Card Address

The base address selected must be encoded by the SW3 micro-switches on the module. Each is assigned a different significance (200H, 100H, 80H, 40H, 20H and 10H). These are used to encode an address on 16 bits, from 100H to 3F0H.

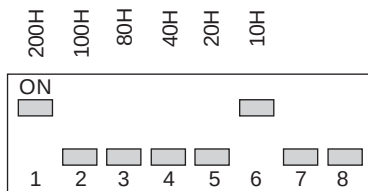


The card base address is set by adding together the significances of the micro-switches in the ON position. Micro-switches 7 and 8 must remain in the OFF position.

Examples :

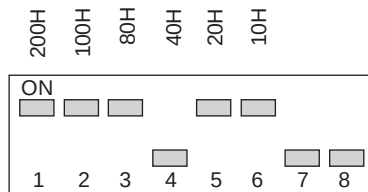
Base address = 210H

This address corresponds to significances 200H and 10H. Micro-switches 1 and 6 will therefore be in the ON position.



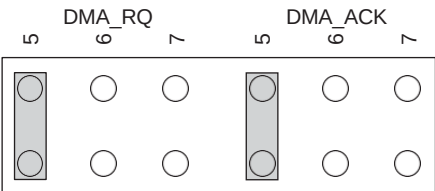
Base address = 3B0H

This address corresponds to significances 200H, 100H, 80H, 20H and 10H. Micro-switches 1, 2, 3, 5 and 6 will therefore be in the ON position.



2.2-3 Selecting the DMA Channel

The DMA channel selected must be linked to the module by jumpers DMA_RQ and DMA_ACK (SW1). Telemecanique recommends DMA channel 5.

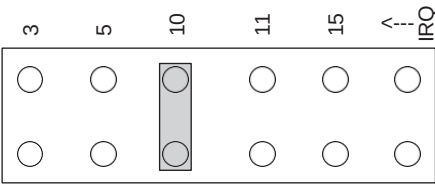


Important : Both jumpers must be set to the same value.

Note : The DMA channels used by the other cards or peripheral devices are given in section 2.2 1.

2.2-4 Selecting the Interrupt Channel

The IRQ channel selected must be linked to the module by jumper SW2. Telemecanique recommends IRQ channel 10.



Notes : The IRQ channels used by the other cards or peripheral devices are given in section 2.2 1. The jumper must not be in position "IRQ".

2.2-5 Installing the Module in the Terminal

The TSX FPC 10 module must only be installed or removed when the terminal is switched off (this also applies to modifying the base address, interrupt level or DMA channel).

After the SW3 address micro-switches and jumpers IRQ (SW2) and DMA (SW1) have been selected :

- Insert the module in an available slot with a 16-bit connector (double connector).
- Connect the module to the mains supply using the TSX FP CE 030 cable.
- Switch the terminal on.

3 Installing the Drivers under DOS, Windows 3.1x and OS/2

3.1 Starting Installation of Drivers

The installation procedure for the drivers is identical under DOS and OS/2.

The FIP DOS, Windows 3.1x driver is installed under DOS using the TSX FPC SD diskette.

The FIP OS/2 driver is installed under OS/2 using the TSX FPC SS diskette.

When the operating system prompt C:\> or [C:\] appears on the screen :

- Insert the appropriate diskette into the drive.
- Select the logical drive containing the diskette by typing A :, for example. The prompt A:\> or [A:\] then appears on the screen.
- Start the installation procedure for the driver by typing the INSTALL command, then confirm with <Enter>.

The following message appears :

```
INSTALLATION DRIVER FIP
FIP DRIVER INSTALLATION
(C) TELEMECANIQUE 1993, V1.0
```

Press <Enter> to continue :

- Press <Enter>. The following screen appears :

```
FIP DRIVER INSTALLATION
```

To install the FIP driver, its configuration parameter values must be set.

The driver uses these parameters to recognize its operating mode and, depending on the mode, its FIPWAY network/station address, or the local and CPU connection points (for FIPIO).

Press <Enter> to continue :

After pressing <Enter>, the CONFIRM INSTALLATION screen appears, in which the various parameters can be modified and confirmed.

Note :

If the DOS integrator (for a FIP DOS, Windows 3.1x driver) or the X-TEL software workshop (for a FIP OS/2 driver) have not been installed, the first screen will ask you to select the installation language (English, French, German, Italian or Spanish).

4 Installing the Drivers under Windows 95/98 and Windows NT**4.1 Starting Installation of the Drivers**

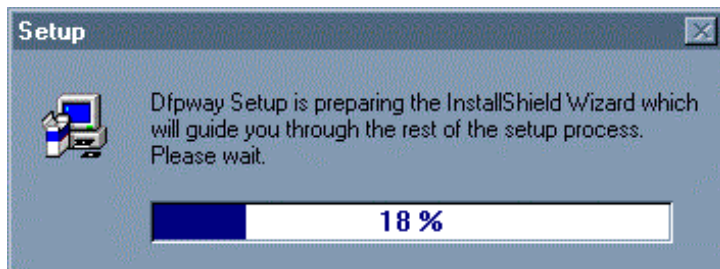
The NT installation tool is only available in English. Specific screens are displayed in the language selected.

Note:

In order for installation to be as secure as possible, all other open applications should be closed.

Starting the installation process :

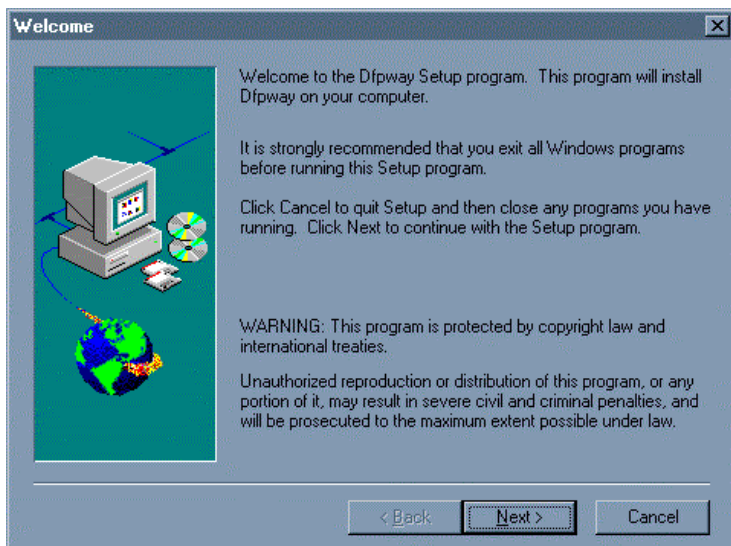
- Insert the TSX FPC SN diskette for installation under Windows NT or the TSX FPC SW diskette for installation under Windows 95/98 into the disk drive.
- In the Windows taskbar, under the **Start** menu, select **Run**.
- In the Run dialog box which appears, type "a:\setup.exe" ("a" representing the disk drive).
- Confirm with **OK**.
- The driver installation process begins and the following window appears on the screen :



4.2 Setting the Parameters for Driver Installation

First screen

Once the installation process has started, the following window appears, asking you to close all other open applications :

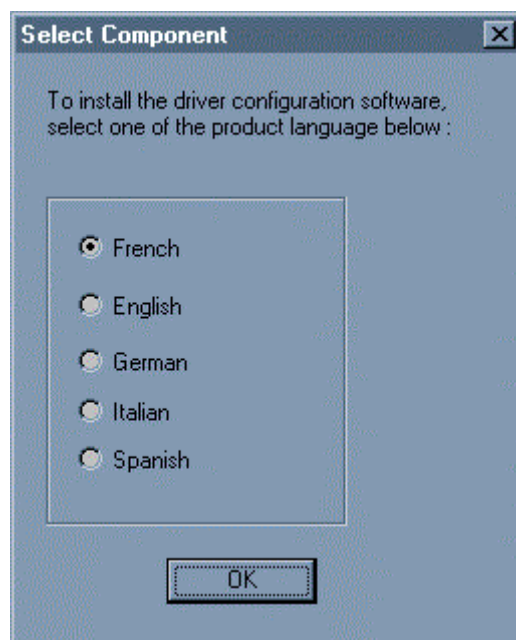


To close other open applications, click the "**Cancel**" button. The installation process will stop. You must now close any open applications, then repeat the initial stages of the installation process (see 4.1).

Click on "**Next>**" to continue installation.

Selecting the language

When this tool is first started (during the driver installation process), a window appears asking the user to select the dialog language of the configuration tool :



Note :

This selection is **definitive**. It is **impossible** to modify the dialog language of the configuration tool for the FIPWAY NT driver at a later stage.

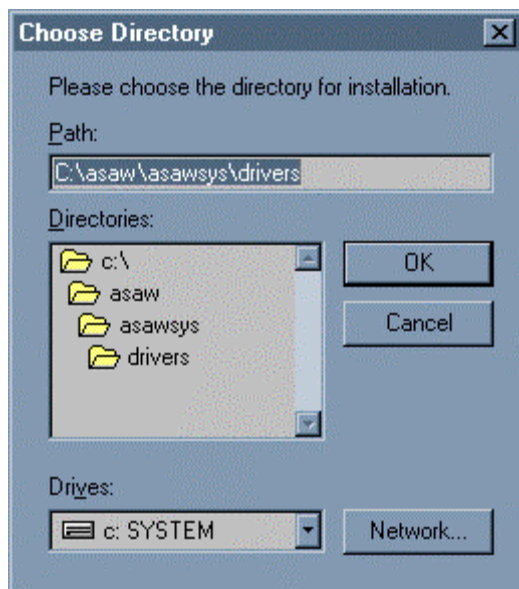
Selecting the installation directory

The screen below is used to select the installation directory for the FIPWAY NT driver. By default, this is : **C:\XWAYDRV**



If the directory selected is the desired directory, click on "**Next>**" to continue installation.

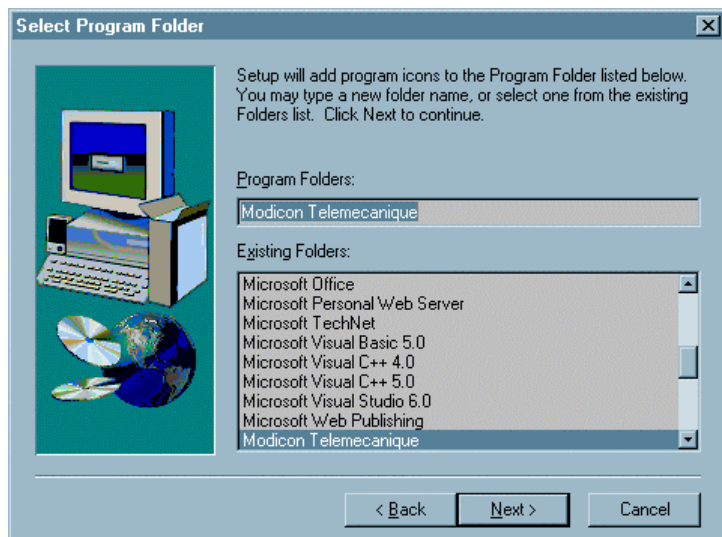
It is however possible to select another installation directory. To do this, click the "**Browse ...**" button. This opens the dialog box below, which can be used to select the destination directory :



The directory selected is confirmed by clicking the "**OK**" button, and installation to the selected directory continues by returning to the previous window.

Selecting the program group

Clicking on "Next" confirms the selection of the program folder and the setup program copies the files to the programming terminal. The configuration tool window is then displayed so that the PCMCIA FPP 20 card operating parameters can be entered.



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