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## How to use FRnet modules in NAPOPC\_XPE ?

*Applies to:*

Platform	OS version	NAPOPC version
XPAC	XPE	NAPOPC_XPE v1.12

If you want to exchange data between XPAC and FRnet modules, you have to plug **I-8172W** in your XPAC, so as to communicate with FRnet modules.

**Before operating, let's clarify Receiver Address and Sender Address:**

On the manual of FRnet DI modules, it may just show that "Sender Address" is between 8 to 15. However, In NAPOPC, we have to set "Receiver Address" the same as "Sender Address" of FRnet DI modules.

Actually, "sender" and "receiver" have opposite relationship. For example, when FRnet DI module gets a DI Signal and "send" it to NAPOPC, in this situation, the NAPOPC plays the role of "receiver". On the contrary, when we "send" command from NAPOPC to the DO module, the role of DO module is "receiver". Please follow this rule to set FRnet modules in NAPOPC.

FRnet modules are not supported by "Search" function, you can only add FRnet modules manually:

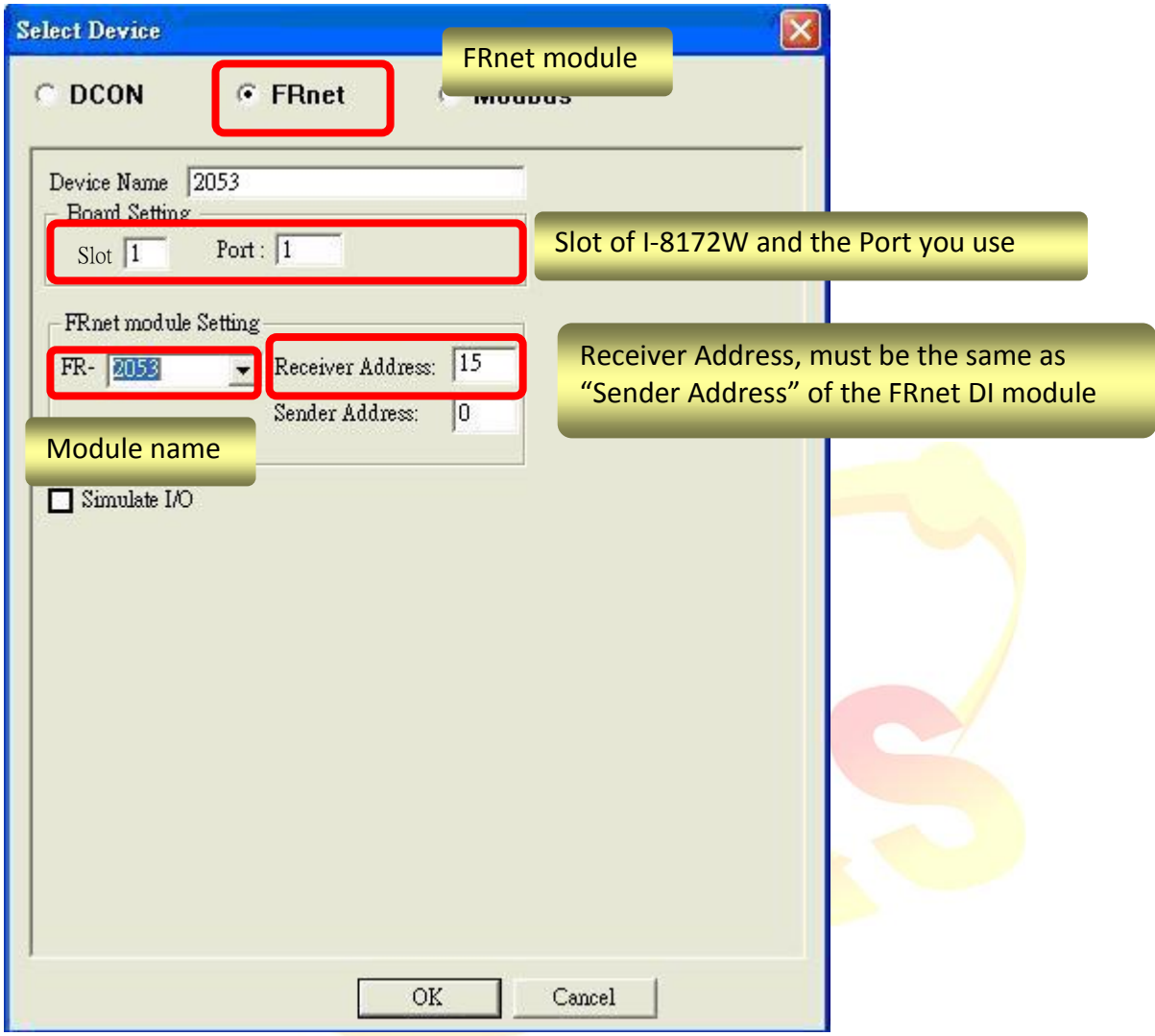
### Step 1 Add FRnet DI module (Example: FR-2053)

Click "Device" on the Toolbar to add new device.



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It will show you the dialog as below:



After setting up, just click "OK".

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## Step 2

FR-2053 is added, then click "Generate Tags", and it will add all tags for you according to FR-2053 specification.

The first screenshot shows the software interface with the 'Generate Tags' button highlighted in red in the toolbar. The main window shows a tree view with '2053' selected and an empty table with columns 'Name' and 'Type'.

The second screenshot shows the software interface after clicking 'Generate Tags'. The main window now displays a table with 16 channels:

Name	Type	Channel/Location
Ch00	Bit Input	0
Ch01	Bit Input	1
Ch02	Bit Input	2
Ch03	Bit Input	3
Ch04	Bit Input	4
Ch05	Bit Input	5
Ch06	Bit Input	6
Ch07	Bit Input	7
Ch08	Bit Input	8
Ch09	Bit Input	9
Ch10	Bit Input	10
Ch11	Bit Input	11
Ch12	Bit Input	12
Ch13	Bit Input	13
Ch14	Bit Input	14
Ch15	Bit Input	15

Now we could exchange data between XPAC and FR-2053.

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### Step 3 Add FRnet DO module (Example: FR-2057)

Basically, the procedure is the same as before, the only difference is that you have to set “Sender Address” instead of “Receiver Address”.

The screenshot shows the 'Select Device' dialog box with the following settings:

- FRnet module** (highlighted in a yellow callout)
- FRnet** radio button selected (circled in red)
- Device Name:** 2057 (circled in red, with callout 'Module name')
- Board Setting:**
  - Slot:** 1 (circled in red, with callout 'Slot of I-8172W and the Port you use')
  - Port:** 1 (circled in red, with callout 'Slot of I-8172W and the Port you use')
- FRnet module Setting:**
  - FR-:** 2057 (circled in red, with callout 'Module name')
  - Receiver Address:** 8 (circled in red)
  - Sender Address:** 7 (circled in red, with callout 'Sender Address, must be the same as "Receiver Address" of the FRnet DO module')

Buttons: OK, Cancel

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### Step 4

The following procedure is the same as add FR-2053. Click "Generate Tags" to add tags, then it's done.

The first screenshot shows the software interface with the 'Generate Tags' button highlighted by a red box. The interface includes a menu bar (File, Add, Edit, View, Options, Help) and a toolbar with icons for New, Open, Save, Device, Group, Tag, Multi., Gener..., Search, Expand, Shrink, and Monitor. The left pane shows a tree view with folders '2053' and '2057', and a sub-folder 'DIs' under '2053'. The right pane is empty.

The second screenshot shows the same interface after clicking 'Generate Tags'. The 'DIs' folder is expanded to show 'DOs'. The right pane now displays a table of channels:

Name	Type	Channel/Location
Ch00	Bit Output	0
Ch01	Bit Output	1
Ch02	Bit Output	2
Ch03	Bit Output	3
Ch04	Bit Output	4
Ch05	Bit Output	5
Ch06	Bit Output	6
Ch07	Bit Output	7
Ch08	Bit Output	8
Ch09	Bit Output	9
Ch10	Bit Output	10
Ch11	Bit Output	11
Ch12	Bit Output	12
Ch13	Bit Output	13
Ch14	Bit Output	14
Ch15	Bit Output	15