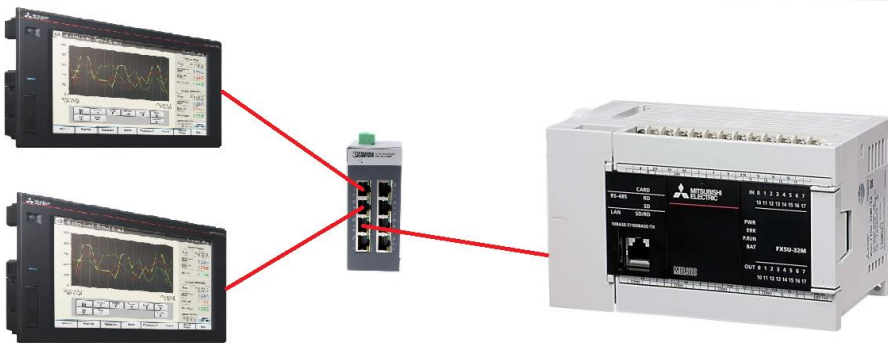




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## Technical Tip

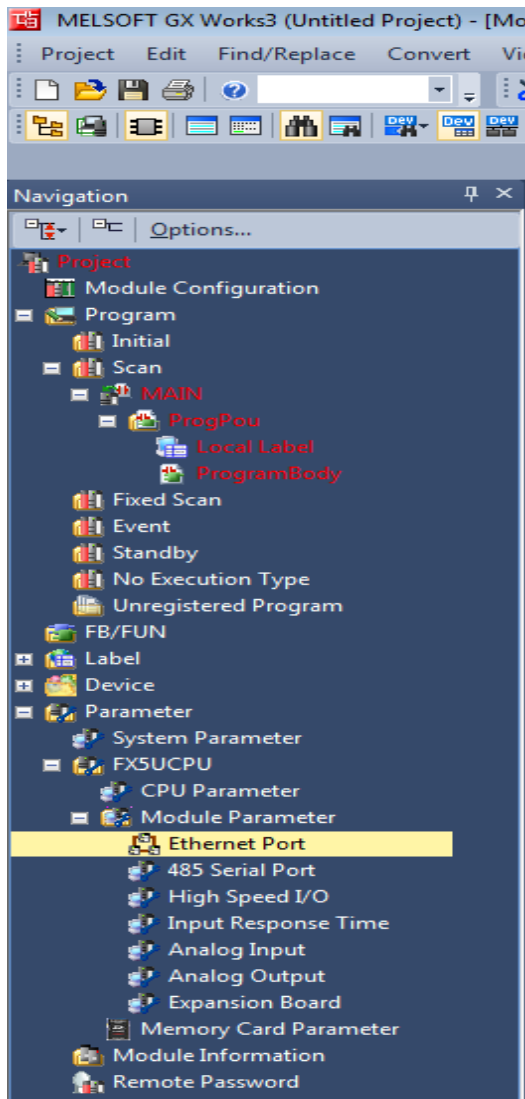
Connecting two GT2000's to an FX5 via Ethernet



Part of the **B P X** Group

# GX Works3

In the Navigation window in **GX Works3**, go to **Parameter** → **Module Parameter** and select **Ethernet Port**.





Give the **FX5** a suitable IP address, and then click on the **<Detailed Setting>** under the External Device Configuration.

Setting Item	
Item	Setting
<b>Own Node Settings</b>	
IP Address	
IP Address	192 . 168 . 1 . 250 <b>Set the IP address of the FX5</b>
Subnet Mask	. . .
Default Gateway	. . .
<b>Communication Data Code</b>	Binary
<b>CC-Link IEF Basic Setting</b>	
To Use or Not to Use CC-Link IEF Basic Setting	Disable
Network Configuration Settings	<Detailed Setting>
Refresh Settings	<Detailed Setting>
<b>External Device Configuration</b>	
External Device Configuration	<Detailed Setting> <b>Click &lt;Detailed Setting&gt; to access External Device Configuration settings.</b>

**Explanation**

Select the data code for communications.

- Binary: Binary code is used for data communications.
- ASCII (X, Y OCT): ASCII code (X, Y OCT) is used for data communications.
- ASCII (X, Y HEX): ASCII code (X, Y HEX) is used for data communications.

Check

Restore the Default Settings

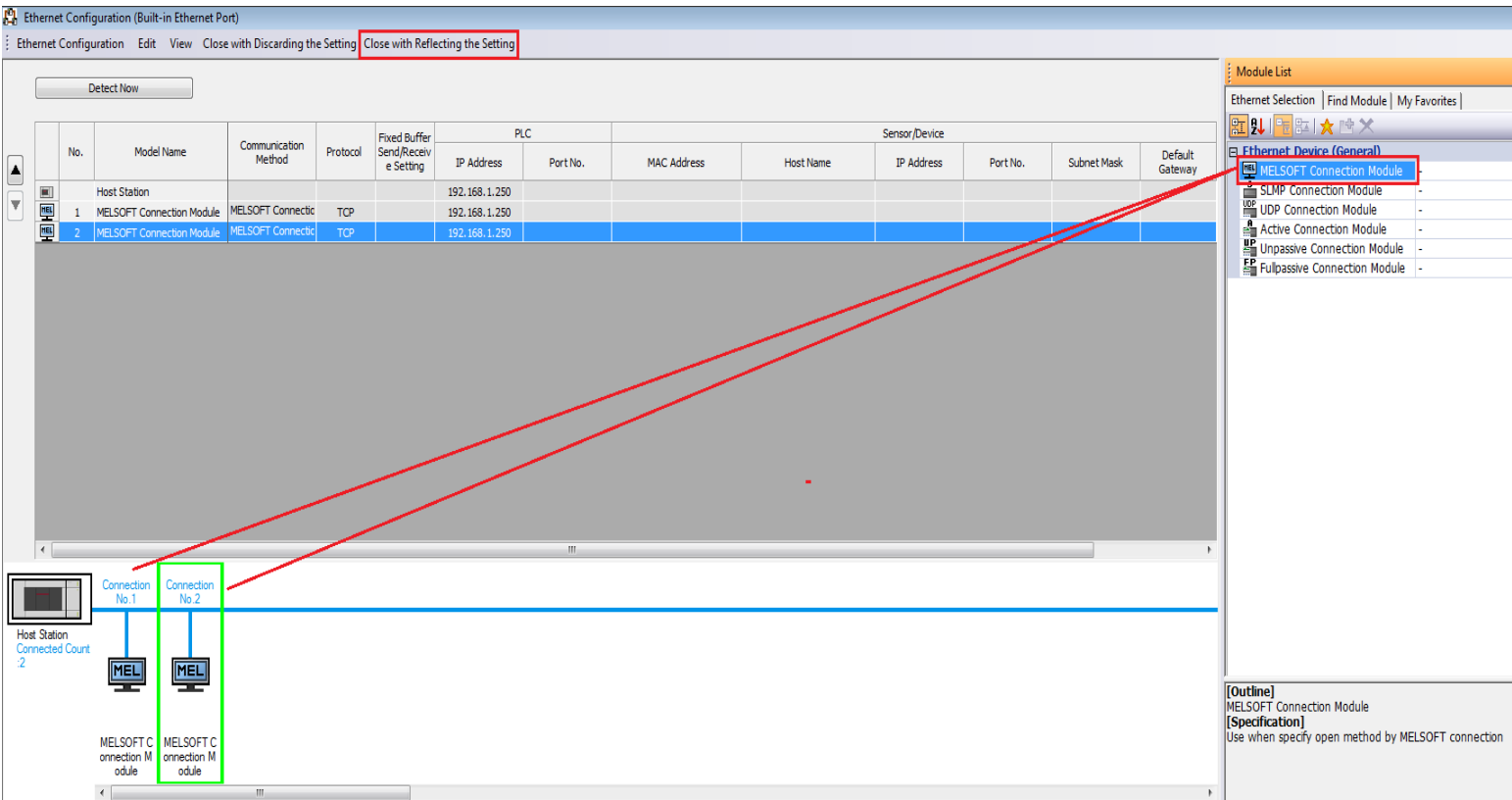
Apply



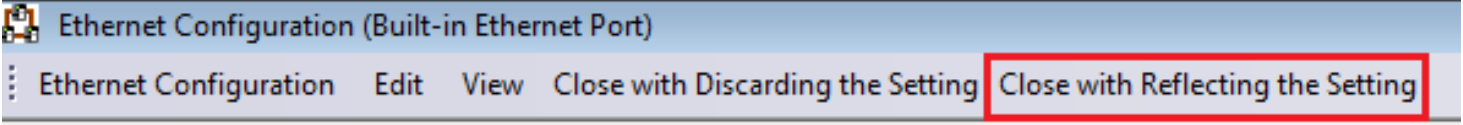


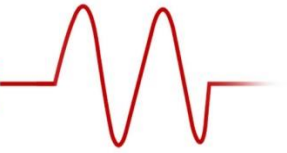
If connecting to only one GT2000 HMI, then drop one MELSOFT Connection Module onto the Host Station Rail.

In this example, we are connecting two GT2000 HMIs to one FX5, therefore we will drop two MELSOFT Connection Modules onto the Host Station rail.



Remember to save these settings before closing the **Ethernet Configuration (Built-in Ethernet Port)** window, by clicking the **'Close with Reflecting the Setting'** option as shown below:





Write these Parameter settings into the PLC by clicking the **Parameter + Program(F)** button and then **Execute**.

Once written, power-cycle the **FX5**, so that the parameter changes become valid.

Online Data Operation

Display Setting Related Functions

Write Read Verify Delete

Parameter + Program(F) Select All Open/Close All(T) Deselect All(N)

Legend: CPU Built-in Memory, SD Memory Card, Intelligent Function Module

Module Name/Data Name		Detail	Title	Last Change	Size (Byte)
Untitled Project	<input type="checkbox"/>				
Parameter	<input checked="" type="checkbox"/>				
System Parameter/CPU Parameter	<input checked="" type="checkbox"/>			31/07/2017 13:28:04	Not Calculated
Module Parameter	<input checked="" type="checkbox"/>			31/07/2017 13:27:57	Not Calculated
Memory Card Parameter	<input checked="" type="checkbox"/>			31/07/2017 13:27:57	Not Calculated
Remote Password	<input checked="" type="checkbox"/>			31/07/2017 13:27:57	Not Calculated
Global Label	<input checked="" type="checkbox"/>				
Global Label Setting	<input checked="" type="checkbox"/>			31/07/2017 13:28:04	Not Calculated
Program	<input checked="" type="checkbox"/>				
MAIN	<input checked="" type="checkbox"/>			31/07/2017 13:28:05	0
Device Memory	<input type="checkbox"/>				
MAIN	<input type="checkbox"/>			31/07/2017 13:28:05	

Display Memory Capacity

Memory Capacity

Size Calculation

Legend: Used, Increased, Decreased, Free: 5% or Less

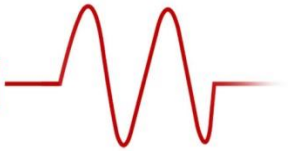
Program Memory: Free 0/0Step

Data Memory: Free

SD Memory Card: Free 0/0KB

Execute Close





# GT Works3

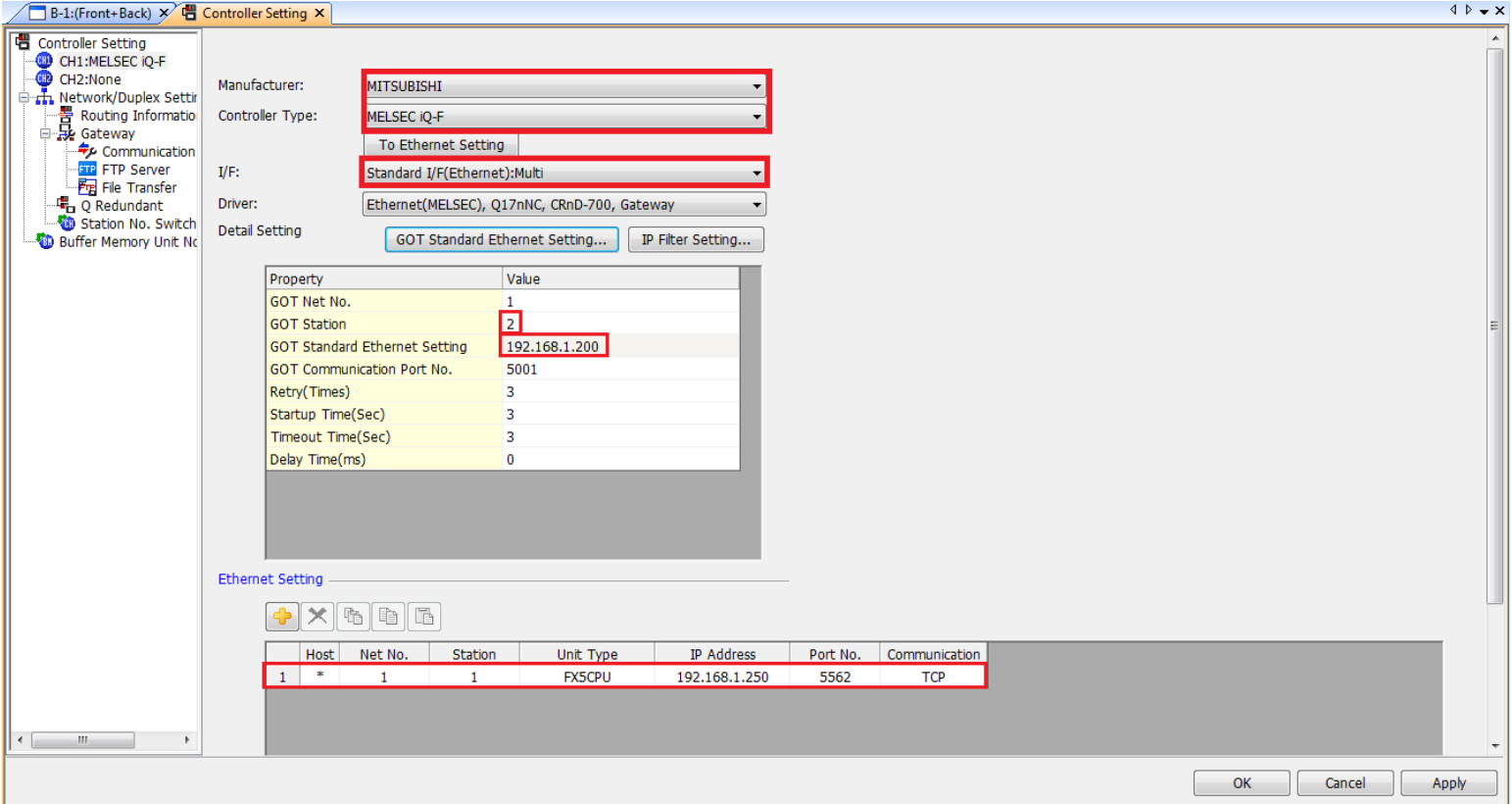
## HMI 1 (GT Designer3)

In the **GT Designer3** HMI programming software, make sure to use the Mitsubishi iQ-F Ethernet driver as shown below.

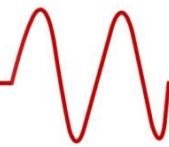
Make the GOT Station **'2'** and give HMI 1 a suitable IP address.

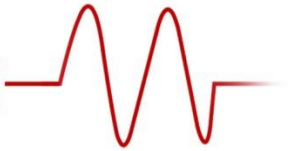
Under the **'Ethernet Setting'** section, ensure that the IP Address of the PLC is the same as that set in **GX Works3** and the Station number is set to **'1'**.

Remember to click on **Apply** and then **OK**.



Now write the project data into **HMI 1** via the USB connection.





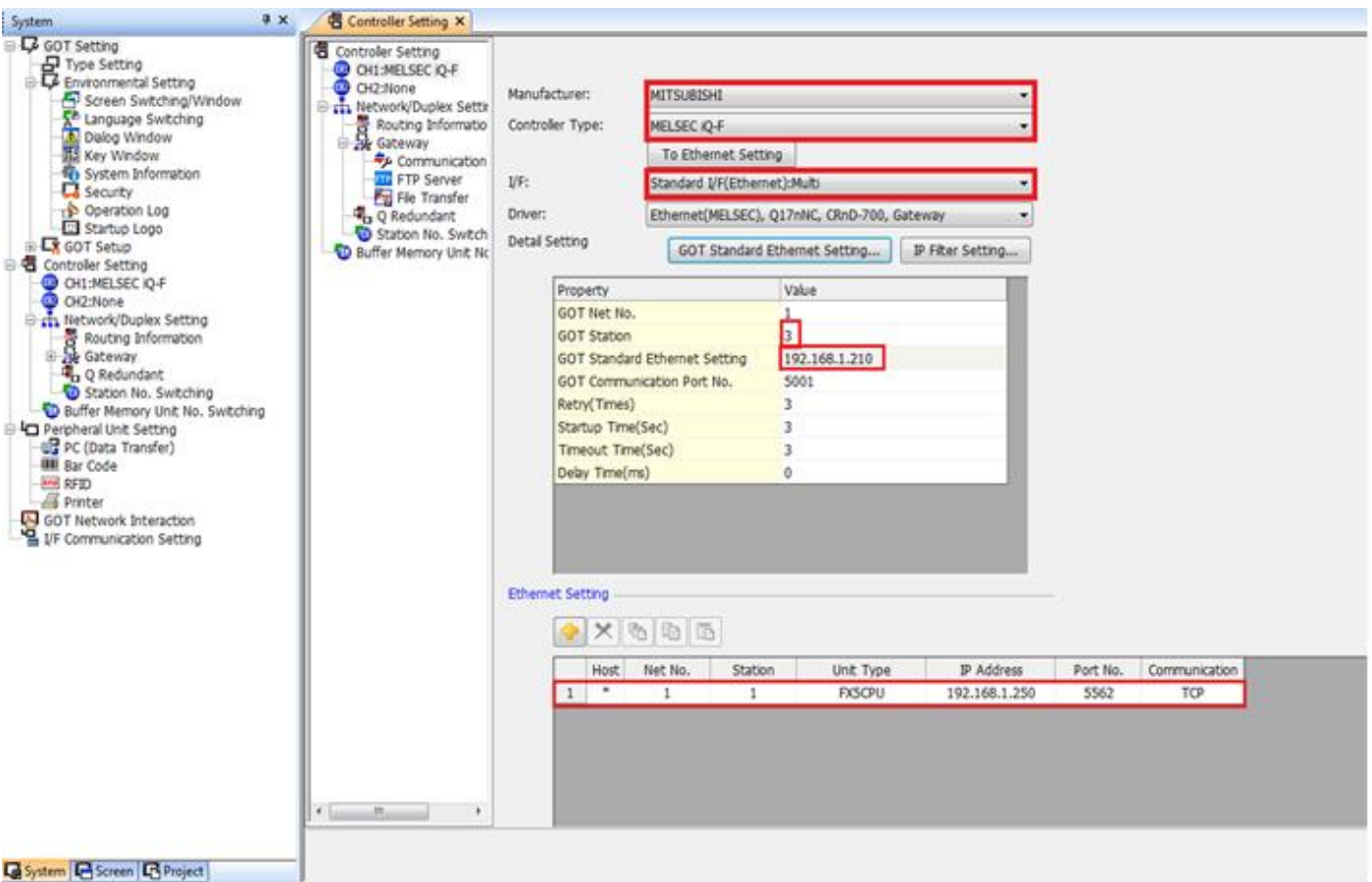
## HMI 2 (GT Designer3)

In the second HMI GT Designer3 project, make sure you use the Mitsubishi iQ-F Ethernet driver as shown below.

Make the GOT Station '3' and give HMI 2 a suitable IP address (within the subnet of the FX5 and HMI 1).

Again, under the 'Ethernet Setting' section, ensure that the IP Address of the PLC is the same as that set in **GX Works3** and the Station number is set to '1'.

Remember to click on **Apply** and then **OK**.



Now write the project data into **HMI 2** via the USB connection.

By connecting all devices together **FX5**, **HMI 1** and **HMI 2** via an Ethernet switch, all devices should now communicate.

