

Quick Start Guide



MELSEC FX5U/FX5UC Ethernet to X2 series

SUEN00402 - Quick start Ethernet communication



1 Function and area of use

This document explains how to set up a FX5U/FX5UC to communicate with X2/BoX2 over Ethernet.

2 About this Startup document

This Startup document should not be considered as a complete manual. It is an aid to be able to Startup a normal application quickly and easily.

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Use the following hardware, software, drivers and utilities in order to obtain a stable application:

In this document we have used following software and hardware

- iX Developer 2.40 SP4 or later
- X2/BoX2 series
- GX Works 3
- FX5U/FX5UC with built-in Ethernet

For further information refer to

- [Beijer Electronics knowledge database, HelpOnline](#)

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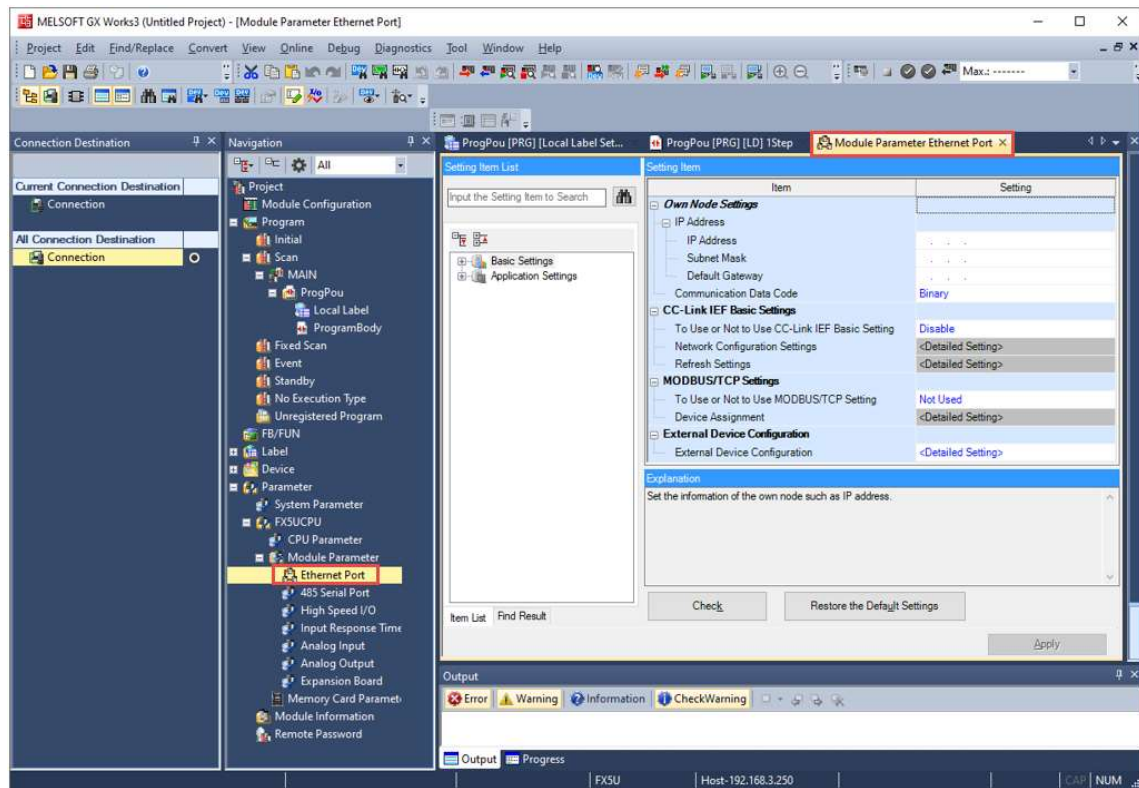
3 Table of Contents

- 1 Function and area of use.....2
- 2 About this Startup document.....2
- 3 Table of Contents.....3
- 4 Setting in FX5U Ethernet communication4
- 5 Setting in X2/BoX2 Ethernet communication.....6
 - 5.1 Create a new project in iX Developer6
 - 5.2 Driver settings (MC Protocol)8
- 6 About Beijer Electronics9
 - 6.1 Contact us9

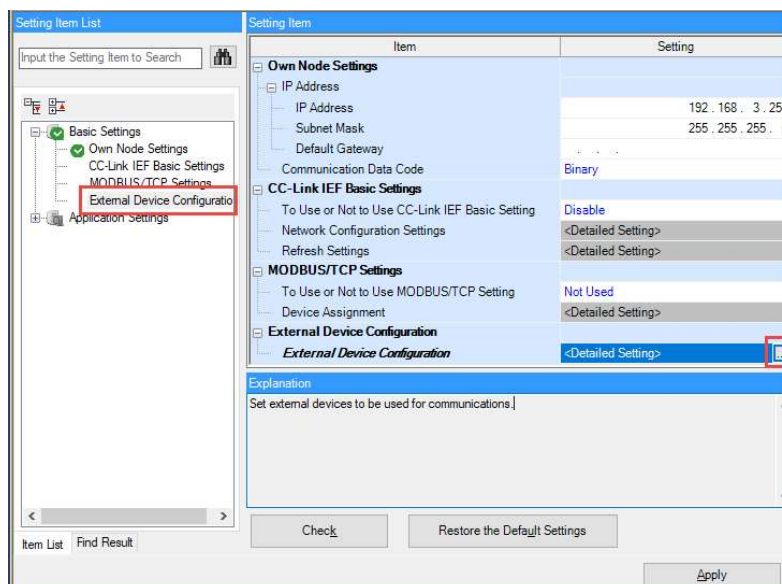
4 Setting in FX5U Ethernet communication

The following chapter describes how to setup the Ethernet communication.

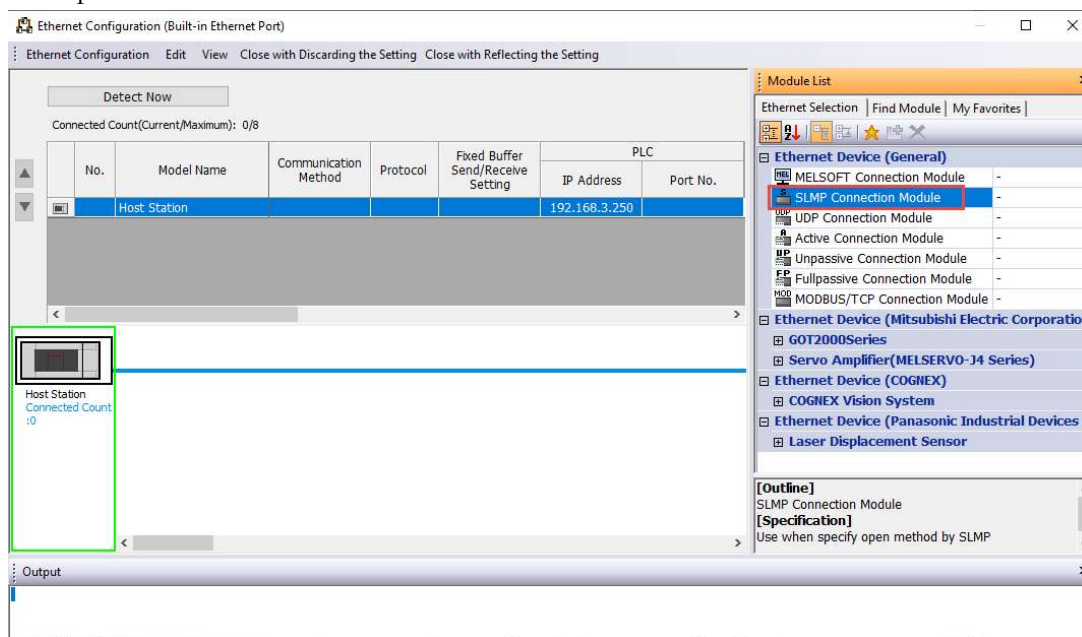
Path to Ethernet settings in FX5U:



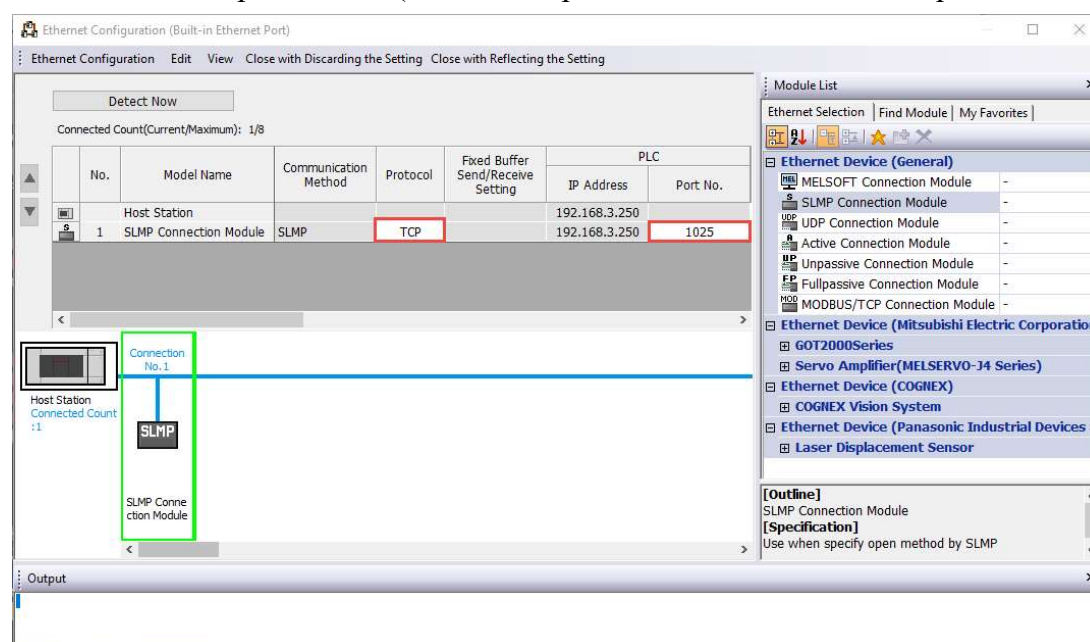
Enter IP address, Subnet Mask and (if used) Default Gateway. Click in the field “External Device Configuration” to enable the button:



Select “SLMP Connection under the “Ethernet Device” in the connection tree and use drag & drop to the connection list:



Select “TCP” and portnumber (must match port number set in iX Developer):



Select protocol TCP and set station port number (setting range: 1025 to 4999, 5010 to 65534. Do not use port 5000 to 5009 since they are used internally by the system. For multiple HMI's connected to one controller, use a separate SLMP module for each HMI, to reduce workload.

5 Setting in X2/BoX2 Ethernet communication

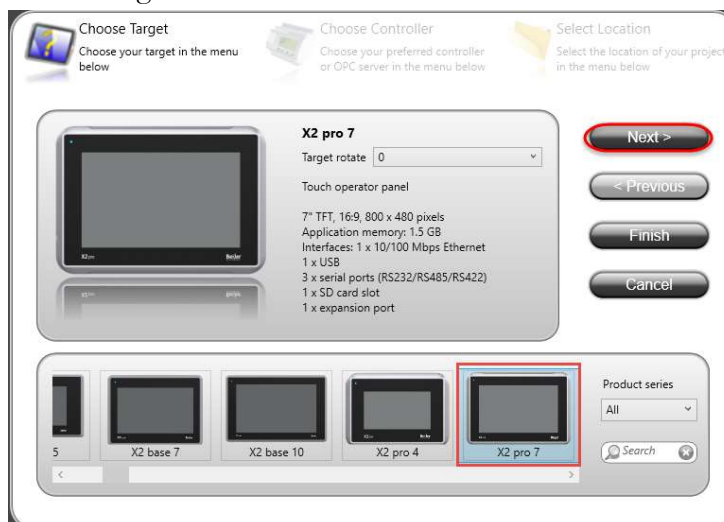
The following chapter describes how to setup the Ethernet communication in iX Developer using the MC Protocol driver.

5.1 Create a new project in iX Developer

Start iX Developer, select “Create New Project”:



Select target:



Select MC Protocol:

Choose Target
Choose your target in the menu below

Controllers

Select brand

MELSEC

MELSERVO

MODICON

NMEA 0183

Choose Controller
Choose your preferred controller or OPC server in the menu below

Select protocol

FX ENET

FX Series Serial

FX3U/GE-ENET

MC Protocol

QnA/Qnn/Lnn Serial

QnA/Qnn/Lnn-Series (C24)

Select Location
Select the location of your project in the menu below

Next >

< Previous

Finish

Cancel

OPC UA Server

URL:

Type path and project name:

Choose Target
Choose your target in the menu below

Choose Controller
Choose your preferred controller or OPC server in the menu below

Select Location
Select the location of your project in the menu below

Name:

MC_Protocol

Location:

D:\X2_FX5U

Browse...

Next >

< Previous

Finish

Cancel

5.2 Driver settings (MC Protocol)

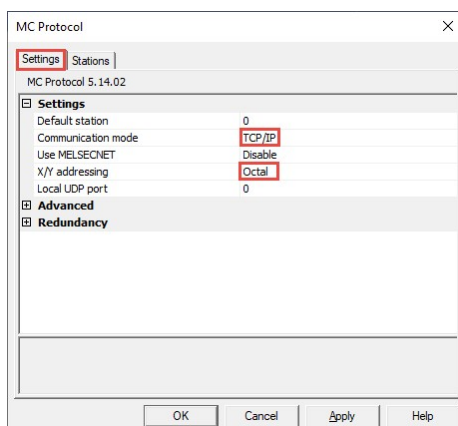
Double click on “Tags”:



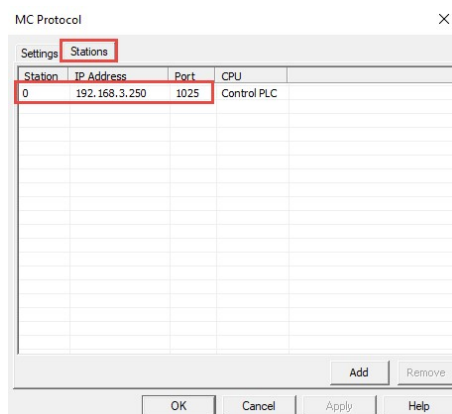
Select “Controllers” - “Settings...”:



Select “TCP/IP” and “Octal”:



Type IP address and port number configured in GX Works3:



Tip!

Help about driver, click on “Help”

Press OK.

6 About Beijer Electronics

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