# **Quick Start Guide**



## MELSEC iQ-R Ethernet to X2 series

**SUEN00406 - Quick start Ethernet communication** 





## 1 Function and area of use

This document explains how to set up an iQ-R over ethernet to communicate with X2/BoX2 over Ethernet using MC Protocol.

## 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
- iQ-R CPU

#### For further information refer to

• Beijer Electronics knowledge database, HelpOnline

This document and other Startup documents can be obtained from our homepage. Please use the address *support.europe@beijerelectronics.com* for feedback about our Quick Start documents.

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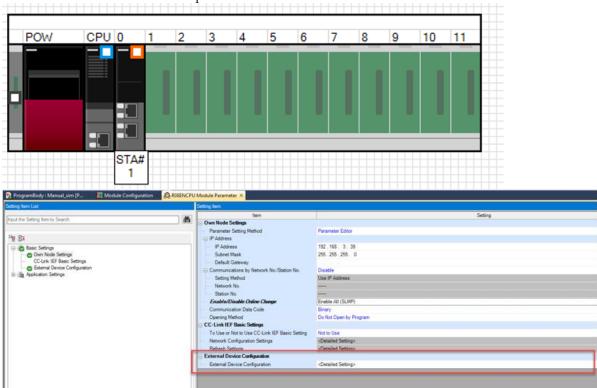
## 4 Setting in GX Works3, iQ-R Ethernet communication

The following chapter describes how to setup the Ethernet communication.

All iQ-R (for example R04) has a built in ethernet port, Auto UDP 5005 is to be used.

Som iQ-R models are also available in a R0xEN model with 3 ethernet ports. Port 2 and 3 are using the same Auto ports as older ethernet modules in the Q-series (QJ71E71-100, Auto UDP ports: 5000 and 5001, Auto TCP port: 5002).

Recomemmded is to use UDP ports.



To enable ports (not using Auto UDP/TCP port) a SLMP module needs to be used, enter port number and transport protocol.



Port number 6000 (decimal) is used in this example, same port must be entered in iX Developer.

## 5 Setting in X2/BoX2 Ethernet communication MC protocol

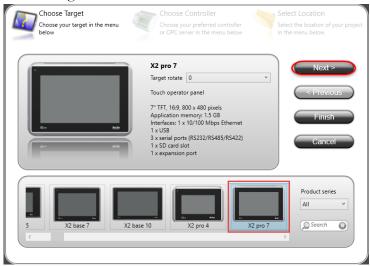
The following chapter describes how to setup the Ethernet communication in iX Developer using the MC Protocol driver.

## 5.1 Create a new project in iX Developer

Start iX Developer, select "Create New Project":

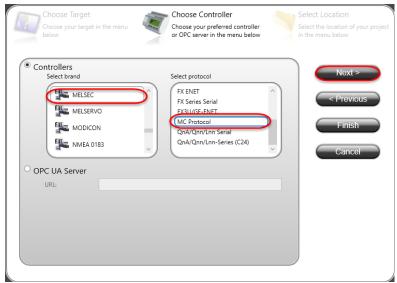


#### Select target:

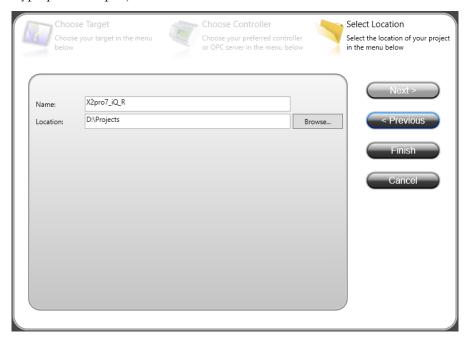




### Select MC Protocol:



## Type path and project name:



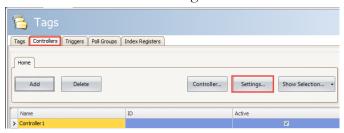


## 5.2 Driver settings (MC Protocol)

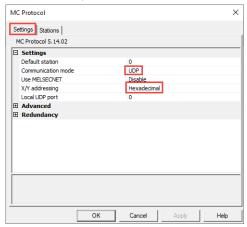
Double click on "Tags":



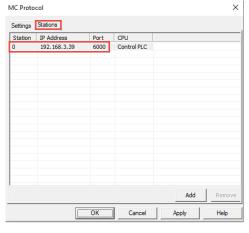
Select "Controllers" - "Settings...":



Select "TCP/IP" and "Hexadecimal":



Type iQ-R IP address and port number configured in GX Works3:



If Auto ports is used in GX Works3 use UDP port: 5000 / 5001 or Auto TCP port: 5002

Tip!

Click on "Help" for driver description

Press OK.



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