

# Mitsubishi iQ-R Series (Ethernet)

Supported Series: Mitsubishi

R00/R01/R02/R04/R08/R16/R32/R120/R04EN/R08EN/R16EN/R32EN/R120EN/R08P/R1 6P/R32P/R120P/R08SF/R16SF/R32SF/R120SF/R08PSF/R16PSF/R32PSF/R120PSF CPU Ethernet Module, M80 CNC Controller Website: http://www.mitsubishi-automation.com

### **HMI Settings:**

| Parameters     | Recommended Options        |                                 | Notes                      |  |
|----------------|----------------------------|---------------------------------|----------------------------|--|
| PLC type       | Mitsubishi iQ-R Series (I  |                                 |                            |  |
| PLC I/F        | /F Ethernet                |                                 |                            |  |
| Port no.       | Set identically to the PLO | Adviced to set port no. to 4999 |                            |  |
| PLC sta. no.   | Set identically to the PLO |                                 |                            |  |
| Network number | 0                          | 0~999                           |                            |  |
| Communication  | Dinon                      |                                 |                            |  |
| data code      | Dinary                     | Binary / ASCII                  |                            |  |
| PLC Mode       | IR-F                       | IQ-F / IQ-R                     | Refer to Mitsubishi manual |  |

## **PLCSettings:**

[Setting Method] Use IP Address [Online Change] needs to be set to enable [Communication Data Code] Binary [Opening Method] do not open by program

| eung tem                                    |                        |   |  |  |  |  |  |  |
|---|------------------------|---|--|--|--|--|--|--|
| Item  | Setting                | ^ |  |  |  |  |  |  |
| 😑 Own Node Settings                         |                        |   |  |  |  |  |  |  |
| Parameter Setting Method                    | Parameter Editor       |   |  |  |  |  |  |  |
|   |                        |   |  |  |  |  |  |  |
| IP Address                                  | 192.168.3.89           |   |  |  |  |  |  |  |
| Subnet Mask                                 | 255.255.252.0          |   |  |  |  |  |  |  |
| Default Gateway                             | 192.168.1.254          |   |  |  |  |  |  |  |
| - Communications by Network No./Station No. | Disable                |   |  |  |  |  |  |  |
| Setting Method                              | Use IP Address         |   |  |  |  |  |  |  |
| Network No.                                 |                        |   |  |  |  |  |  |  |
| Station No.                                 |                        |   |  |  |  |  |  |  |
| Enable/Disable Online Change                | Enable All (SLMP)      |   |  |  |  |  |  |  |
| Communication Data Code                     | Binary                 |   |  |  |  |  |  |  |
| Opening Method                              | Do Not Open by Program |   |  |  |  |  |  |  |
| CC-Link IEF Basic Settings                  |                        | ~ |  |  |  |  |  |  |



#### [Ethernet Configuration]

To connect PLC with multiple HMIs, Port No. must be set.

In GX WORK 3, the setting steps are: Project -> Parameter -> R04CPU -> Module Parameter -> Ethernet Port -> Setting Item -> External Device Configuration -> Detailed Setting

| 🛱 Ethernet Configuration (Built-in Ethernet Port) – 🗆 🗙  |   |                  |   |  |  |   |  |             |  |   |
|--|---|------------------|---|--|--|---|--|-------------|--|---|
| Ethernet Configuration Edit View Close with Discarding the Setting Close with Reflecting the Setting |   |                  |   |  |  |   |  |             |  |   |
|  | Detect Now  |                  |   |  |  |   |  |             | Module List ×<br>Ethernet Selection   Find Module   My F 4 • |   |
|  |   | No.              | Model Name  | Communication<br>Method  | Protocol                               | Fixed Buffer<br>Send/Receive<br>Setting | PI<br>IP Address   | LC Port No. | or/D<br>MAC<br>tdre  | EL 24 C EX X  |
| Ho:<br>Coordinate  | s<br>s<br>s<br>s<br>s<br>s<br>s<br>s<br>s<br>s<br>s<br>s<br>s<br>s<br>s<br>s<br>s<br>s<br>s | 1<br>2<br>3<br>4 | Hose Name<br>Hose Station<br>SLMP Connection Module<br>SLMP Connection Module<br>SLMP Connection Module<br>SLMP Connection Module<br>SLMP Consection Module<br>SLMP SLMP<br>SLMP SLMP<br>SLMP Con SLMP Con<br>nection Mo nection Module | Method<br>SLMP<br>SLMP<br>SLMP<br>SLMP<br>Connection Conn<br>No.3<br>SLMP Con<br>SLMP SL<br>SLMP SL<br>SLMP Con<br>sLMP con<br>studie di | TCP<br>TCP<br>TCP<br>TCP<br>TCP<br>TCP | Setting                                 | IP Address<br>192.168.3.89<br>192.168.3.89<br>192.168.3.89<br>192.168.3.89<br>192.168.3.89 | Port No.    | MAC<br>Jdre  | © Ethernet Device (General)<br>☐ Ethernet Device (Hitsubishi Electrik<br>@ GOT2000Series<br>□ Servo Amplifier(MELSERV0-)74 Se<br>0 Ethernet Device (CoRIEX)<br>□ COGHEX Vision System<br>□ Ethernet Device (Panasonic Indust<br>□ Laser Displacement Sensor |
|  |   |                  |   |  |  |   |  |             |  |   |

#### [Remote Password Setting]

Set a remote password and a target connection in the engineering tool, and write the data to the CPU module.

Navigation Window => [Parameter] => [Remote Password] => [Remote Password Setting] Screen

| Cel          | lular Data Network |                 | Time Sync.  | /DST           | e-Mail   |           | FTP           |  |
|--------------|--------------------|-----------------|-------------|----------------|----------|-----------|---------------|--|
| Device Model |                    | General         | System      | Remote         | Security | Exte      | ended Memory  |  |
| Device list  | t:                 |                 |             |                |          |           | What's my IP? |  |
|              | Nam                | e               | Location    | Device Type    | :        | Interface |               |  |
| 4 Ime        | 1 HIMI Loos        | 1 HB/II         | Local       | -MT3092X (1024 | v 768)   |           |               |  |
|              |                    |                 | Device      | Settings       |          |           | ×             |  |
|              | Name : Mit         | subishi iQ-R Se | ries        |                |          |           |               |  |
|              |                    | ۲               | Device      |                |          |           |               |  |
|              |                    |                 | IP Addres   | s Settings     |          |           |               |  |
|              |                    | address .       | 102 169     | 2 90           |          |           | I.            |  |
|              | 1                  | address :       | 192 . 168 . | 3 . 89         |          |           |               |  |
|              |                    | Port no.: 49    | 999         |                |          |           |               |  |
|              | - Romoto Racowo    | rd Cotting      |             |                |          |           | E .           |  |
|              | Remote Passwo      | ru setung       | Fashla      |                |          |           |               |  |
|              |                    | V               | Enable      |                |          |           |               |  |
|              |                    | Password : 1    | 11111       |                |          |           |               |  |

## **Device Address:**

| Bit/Word | Device type | Format   | Range         | Memo                    |
|----------|-------------|----------|---------------|-------------------------|
| В        | Х           | HHHHh    | 0 ~ 2ffff     | Input                   |
| В        | Υ           | HHHHh    | 0 ~ 2ffff     | Output                  |
| В        | М           | DDDDDDDD | 0 ~ 153165823 | Internal Relay          |
| В        | L           | DDDDD    | 0 ~ 32767     | Latch Relay             |
| В        | В           | HHHHHHh  | 0 ~ 9211fff   | Link Relay              |
| В        | F           | DDDDD    | 0 ~ 32767     | Annunciator             |
| В        | SB          | HHHHHHh  | 0 ~ 9211fff   | Link Special Relay      |
| В        | V           | DDDDD    | 0 ~ 32767     | Edge Relay              |
| В        | TS          | DDDDDD   | 0 ~ 8993439   | Timer Contact           |
| В        | ТС          | DDDDDD   | 0 ~ 8993439   | Timer Coil              |
| В        | SS          | DDDDDD   | 0 ~ 8993439   | Retentive Timer         |
| В        | SC          | DDDDDD   | 0 ~ 8993439   | Retentive Timer Coil    |
| В        | CS          | DDDDDD   | 0 ~ 8993439   | Counter Contact         |
| В        | CC          | DDDDDD   | 0 ~ 8993439   | Counter Coil            |
| В        | SM          | DDDD     | 0 ~ 4095      | Special Relay           |
| В        | D_Bit       | DDDDDDDh | 0 ~ 10117631f | Data Register           |
| В        | SD_Bit      | DDDDh    | 0 ~ 4095f     | Special Register        |
| В        | W_Bit       | HHHHHh   | 0 ~ 9a61fff   | Link Register           |
| В        | SW_Bit      | HHHHHh   | 0 ~ 9a61fff   | Link Special Register   |
| В        | R_Bit       | DDDDDh   | 0 ~ 32767f    |                         |
| В        | ZR_Bit      | HHHHHh   | 0 ~ 827ffff   |                         |
| В        | ZR_Dec_Bit  | DDDDDDDh | 0 ~ 8552447f  |                         |
| W        | TN          | DDDDDD   | 0 ~ 8993439   | Timer Current Value     |
| W        | SN          | DDDDDD   | 0 ~ 8993439   | Retentive Timer Current |
| W        | CN          | DDDDDD   | 0 ~ 8993439   | Counter Current Value   |
| W        | D           | DDDDDDD  | 0 ~ 10117631  | Data Register           |
| W        | W           | ННННН    | 0 ~ 9a61ff    | Link Register           |
| W        | SW          | ННННН    | 0 ~ 9a61ff    | Special Link Register   |
| W        | SD          | DDDD     | 0 ~ 4095      | Special Register        |
| W        | Z           | DD       | 0 ~ 23        | Index Register          |
| W        | R           | DDDDD    | 0 ~ 32767     |                         |
| W        | ZR          | ННННН    | 0 ~ 827fff    |                         |
| W        | ZR_Dec      | DDDDDD   | 0 ~ 8552447   |                         |



## Wiring Diagram:

#### **Ethernet cable:**

