

EtherNet/IP Configuration

By using the MB3-specific EDS (Electronic Data Sheet) file, you can operate an MB3 controller equipped with the optional EtherNet/IP module. With the EDS file, you can select files previously saved on the MB3 and perform marking (D.I/O).

- The EDS file can be downloaded from the download page on our website.
- For instructions on how to save files, please refer to the "Operation Guide, Section 14: File Marking."

1. Configuring sketchbookDuo

With the MB3 controller connected via USB, go to "Preferences" → "Communication" to configure EtherNet/IP. After entering the settings, click OK to confirm, then restart the controller. Connect a LAN cable to the MB3 controller's EtherNet/IP port and FA devices such as a PLC.

2. PLC Configuration

From New Project, load the EDS file. The procedure may vary depending on the PLC, but usually, once the EDS file is loaded, the connection point to the MB3 controller is automatically recognized. After loading, set the variable names and configure the PLC's IP address.

- Default Connection Point
IN_100, OUT_150

Here, settings such as file selection and marking using 16-bit binary (hexadecimal) are described. For D.I/O configuration, refer to the "Connectivity Diagram" in the next section. After selecting the saved file (DI 04 – DI 11) and starting (DI 00), marking will begin.

EIP_150 (Variable)	MB3	0000 0000 0000 0000
Start	DI 00	0000 0000 0000 0001
Alarm reset	DI 01	0000 0000 0000 0010
Return to home	DI 02	0000 0000 0000 0100
Stop	DI 03	0000 0000 0000 1000
File No.1	DI 04	0000 0000 0001 0000

File No.2	DI 05	0000 0000 0010 0000
File No.4	DI 06	0000 0000 0100 0000
File No.8	DI 07	0000 0000 1000 0000
File No.16	DI 08	0000 0001 0000 0000
File No.32	DI 09	0000 0010 0000 0000
File No.64	DI 10	0000 0100 0000 0000
File No.128	DI 11	0000 1000 0000 0000

i.e.,: File No.3 → 0000 0000 0011 0000

File No.10 → 0000 0000 1010 0000

File No.254 → 0000 1111 1110 0000

1. Connectivity Diagram

