

TRAJEXIA TJ2-MC64 EtherNet/IP HELPER 1.0

System Requirements: *TJ2-MC64 - Version 2.0083 or higher*

PERFORMANCE

Omron TJ2-MC64 Motion Controller can exchange implicit data (scheduled connections) with EtherNet/IP compatible master unit.

TJ2-MC64 conforms as an EtherNet/IP Slave device.

TJ2-MC64 must be mapped in the EtherNet/IP master scanlist, where connections and RPI will be established.

Following table shows performance references for TJ2-MC64:

RPI	Input bytes (max)	Output bytes (max)
100	376	376
20	250	250

Values outside this range will compromise CPU performance.

Trajexia EtherNet/IP exchange memory areas are established by BASIC program, using the *ETHERNET* BASIC command.

ETHERNET BASIC command CONFIGURATION

The implicit connection type of data exchanged and the mapping of the data is determined by defining endpoints on the TJ2-MC64. These endpoints are defined at run-time using the BASIC command: **ETHERNET**.

The **ETHERNET** command function index '14' is used to define the endpoints, as follows:

ETHERNET(action, -1, 14, endpoint_id, parameter_index [,parameter_value])

- action
0 = Read, 1 = Write.
- endpoint_id

endpoint_id	Value	Description
1	Assembly Object, Instance 100	Input to the TJ2-MC64
2	Assembly Object, Instance 101	Output from the TJ2-MC64

- parameter_index, parameter_value

parameter_index		parameter_value	
Value	Description	Value	Description
0	Address	--	Start address (<i>default =0</i>)
1	Data type	3	VR (<i>default</i>)
		4	TABLE
2	Data format	0	16 bit integer (<i>default</i>) (2 byte element)
		1	32 bit integer (4 byte element)
		2	32 bit floating point (4 byte element)

You can use Trajexia EtherNet/IP Helper to generate BASIC Code for your Trajexia program (i.e., in SHELL). Code needs to be executed once.

Trajexia EthernetIP Helper

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