# EtherNet/IP to Modbus TCP Linking Device

**MINIMIZE COSTS WHEN CONNECTING MODBUS-TCP NETWORKS/DEVICES TO CONTROLLOGIX® OR COMPACTLOGIX® CONTROLLERS WITH AN ETHERNET/IP INTERFACE.**

### FAST COPYING I/O DATA (BIG DATA SUPPORT)

The Linking Device primary function is with the fast transfer of large I/O data between the two networks. This offloads your Logix PLC from working with additional calculations. The Linking Device acts as a slave (adapter) on EtherNet/IP and as a powerful client (master), on the Modbus-TCP network, handling up to 8 KB of I/O data. The data transmission between the two networks is completely transparent.

### SEAMLESS INTEGRATION WITH STUDIO 5000

With its unique Studio 5000® Logix designer integration, everything is accessible from within Studio 5000, including Modbus-TCP network configuration. No extra 3rd-party software or licenses needed.

### CONNECT, CONFIGURE, DONE

EtherNet/IP Linking Devices are configured using a Custom Add-On Profile for Studio 5000 Logix Designer which dynamically generates data structures based on the configuration. No ladder logic files (add on instructions) needed.

Furthermore, it also supports automatic generation of named and structured Studio 5000 controller tags, which eliminates the need to create alias tags.

### FEATURES & BENEFITS

- Minimize costs when connecting Modbus-TCP devices to your PLC. More cost-efficient than an in-chassis solution
- Allows support for "Big Data" - handling up to 8 KB of I/O data over multiple I/O connections on EtherNet/IP
- Speed up configuration through a seamless integration with Studio 5000 Logix Designer
- Compatible with all ControlLogix and CompactLogix PLC’s supporting EtherNet/IP
- Easy to setup with Custom Add-On Profile with no programming required!
- Everything configured through Studio 5000, no 3rd party software or licenses needed
- Dynamically generates data structures in Studio 5000 with no required user logic
- Supports automatic generation of named and structured Studio 5000 controller tags
- Configuration backup in Studio 5000 project and Controller memory

### TECHNICAL SPECIFICATIONS

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|---|---|---|
| **Dimensions (L•W•H)** | 110 x 35 x 101mm or 4,33 x 1,38 x 3,98" | |
| **Weight** | 160 g, 0,35 lb | |

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|---|---|---|
| **Operating temperature** | -25 to +70 °C or -13 to +158 °F | |
| **Storage temperature** | -40 to +85 °C or -40 to +185 °F | |
| **Power supply** | 24 VDC +/- 20% | |
| **Current consumption** | Typical 150 mA @ 24 V | |
| **Enclosure material** | PC ABS, UL94 VO | |
| **Installation position** | Vertical | |
| **Galvanic isolation** | YES, on both BUS/Ethernet side | |
| **Mechanical rating** | IP20, NEMA rating 1 | |
| **Mounting** | DIN-rail (EN 50022 standard) or Wall mount | |
| **Modbus-TCP baudrate** | 10/100 Mbit/s autodetect | |
| **Modbus-TCP connector** | 2x RJ45 | |
| **Modbus-TCP address** | Any valid IP address can be used | |
| **EtherNet/IP baudrate** | 10/100 Mbit/s autodetect | |
| **EtherNet/IP connector** | 2x RJ45 | |
| **EtherNet/IP address** | Any valid IP address can be used | |
| **TCP/IP settings** | Configurable via BOOTP-DHCP server or via Anybus IP config | |
| **SD Memory Card slot** | YES, enabling easy module replacement | |
| **Certifications** | ODVA, CE, $_{C}UL_{US}$ , ATEX/Haz.Loc | |

**HOW TO CONFIGURE**

How to connect a Rockwell PLC (EtherNet/IP) and a Modbus-TCP device

**ORDERING INFORMATION**

Purchasing instructions and terms and conditions: → How to buy

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|---|---|
| **Order Code** | **HMS-EN2MB-R** |
| **Included components** | HMS-EN2MB-R Linking Device, Installation guide, (Power supply not included) |
| **Guarantee** | 3 years |