The EtherNet/IP to Serial Linking Device allows you to connect any serial device to your ControlLogix™ and CompactLogix™ PLC from Rockwell Automation. The stand-alone Linking Device is less expensive than an in-chassis-based solution, and has even better integration to Studio 5000® from Rockwell Automation.

**In short:** EtherNet/IP Adapter Class product which is tightly integrated to Rockwell Studio5000 allowing you to connect serial devices to Rockwell PLCs.

**Connect devices that use:**
- RS232/422/485 interfaces
- Modbus RTU
- Rockwell DF1

**Catalog number:**
HMS-EN2SE-R

The EtherNet/IP to Serial Linking Device will:
- Minimize costs when connecting serial devices to your PLC. More cost-efficient than an in-chassis solution.
- Allow you to easily retrofit existing serial devices.
- Speed up configuration — Automated process inside Rockwell Studio5000.

**Technical highlights**
- Custom Add-On Profile: simplifies configuration and reduces commissioning time, dynamically generates data structures. No need for any ladder logic or Add On Instructions.
- No hardware or software changes for the connected device.
- Does not affect backplane performance (PLC execution time), even when large amount of data is transferred to the Logix PLC.
- EtherNet/IP Adapter Class product supporting announced-based DLR.
- Supports serial RS232/422/485, Modbus RTU and DF1.
- Automatically generates named and structured Studio 5000 controller tags based on the configuration — no need for add-on instructions or creating alias tags.
- Connects up to 31 serial nodes.
- ODVA, CE, UL, ATEX and Haz.Loc. certifications pending.
## TECHNICAL SPECIFICATIONS

### EtherNet/IP to Serial Linking Device

<table>
<thead>
<tr>
<th>Protocol</th>
<th>RS232/422/485, Modbus RTU and DF1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max stations</td>
<td>31 (with RS485/422)</td>
</tr>
<tr>
<td>Baud rate</td>
<td>1.2-57.6 kbps</td>
</tr>
<tr>
<td>Physical standards</td>
<td>One RS232/422/485 connector and two RJ45 connectors</td>
</tr>
<tr>
<td>I/O Data</td>
<td>Max. 500 input bytes, 496 output bytes.</td>
</tr>
<tr>
<td>Modbus Commands</td>
<td>0x01 Read Coils, 0x02 Read Discrete Inputs, 0x03 Read Holding Registers, 0x04 Read Input Registers, 0x05 Write Single Coil, 0x06 Write Single Register, 0x07 Read Exception Status, 0x08 Diagnostics, 0x09 Get Comm Event Ctrl, 0xC Get Comm Event Log, 0xD Write Multiple Coils, 0xE Write Multiple Registers, 0x10 Report Slave ID, 0x14 Read File Record, 0x15 Write File Record, 0x16 Mask Write Register, 0x17 Read File Multiple Registers, 0x18 Read FIFO Queue</td>
</tr>
<tr>
<td>Customized commands can be created (in the Configuration Manager)</td>
<td></td>
</tr>
</tbody>
</table>

### Technical Details

<table>
<thead>
<tr>
<th>Weight</th>
<th>190 g, 0.33 lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (L•W•H)</td>
<td>120•75•27 mm, 4.72•2.95•1.06&quot;</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP20, NEMA rating 1</td>
</tr>
<tr>
<td>Enclosure material</td>
<td>PC ABS, UL 94</td>
</tr>
<tr>
<td>Installation position</td>
<td>Any</td>
</tr>
<tr>
<td>Mounting</td>
<td>DIN rail (35•7,5/15)</td>
</tr>
</tbody>
</table>

### Certifications

- CE: 2014/30/EU, EN 61000-6-4, EN 61000-6-2

### Electrical Characteristics

- Power: 24 VDC +/- 10 %
- Current consumption: Max 300 mA, Typical 100 mA

### Hardware Characteristics

- Reverse voltage protection: Yes
- Short circuit protection: Yes
- Galvanic isolation on subnetwork: Yes
- MTTF: >550 000 h (Telcordia Issue 2, Method 1 Case 3 at 30 °C)

### Environmental Characteristics

- Operating temp: 0 to 55 °C, 32 to 131 °F
- Storage temp: -40 to 85 °C, -40 to 185 °F
- Relative Humidity: 0-95 % non condensing
- Installation altitude: Up to 2 000 m

### Immunity and emission for industrial environment

- Electrostatic discharge: ±1/4 kV, EN 61000-4-2
- Electro Magnetic RF fields: 10 V/m 80 MHz - 1 GHz, 3 V/m 1.4 GHz - 2.0 GHz, 2 V/m 2.0 GHz - 2.7 GHz, EN 61000-4-3
- Fast Transients: ±1/1 kV, EN 61000-4-4
- Surge protection: ±1/1 kV, EN 61000-4-5
- RF conducted interference: 10 Vrms, EN 61000-4-6
- Emission (at 10 m): 40 dB 30 MHz - 230 MHz, 47 dB 30 MHz - 1 GHz, CISPR 16-2-3

### Single Pack Accessories

- Installation sheet • Dsub with screw terminals for subnetwork

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By using the Process Tags Editor, you can save yourself a lot of work by letting the software automatically create process tags.