MB-GATEWAY Modbus TCP/IP to RTU Gateway

**MB-GATEWAY** $221.00

AutomationDirect’s MB-GATEWAY is a single port Modbus Gateway module that converts Modbus TCP to Modbus RTU. It supports up to 12 simultaneous Modbus TCP Client (master) Ethernet connections, and up to 128 RTU Server (slaves) serial connections. MB-GATEWAY requires 10VDC to 36VDC from an external power supply. Each module has one RJ45 10/100 Mbps Ethernet port and one RS-422/485 2 or 4-wire serial port. It supports NetEdit* or Web Browser based configuration tools.

**Key features**
- Automatic read function
- RJ45 10/100 Mbps Ethernet port
- RS-422/485 2 or 4 wire serial port
- Supports NetEdit* and Web browser configuration tools
- Auto detects Ethernet cable types (MDI/MDX)
- 35 mm DIN rail mount

*NetEdit version 3.8 or later is required to support MB-GATEWAY.*

### Specifications

<table>
<thead>
<tr>
<th>Ethernet Interface</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port</td>
<td>RJ-45</td>
</tr>
<tr>
<td>Speed</td>
<td>10/100 Mbps</td>
</tr>
<tr>
<td>Protection</td>
<td>Built-in 1.5 KV magnetic isolation</td>
</tr>
<tr>
<td>Protocol Supported</td>
<td>Modbus TCP/IP Server (Slave)</td>
</tr>
<tr>
<td>Clients (Masters) Supported</td>
<td>12 simultaneous Modbus TCP connections</td>
</tr>
<tr>
<td>Serial Interface</td>
<td></td>
</tr>
<tr>
<td>Port</td>
<td>6-position terminal strip (Phoenix #1863194) provided</td>
</tr>
<tr>
<td>Supported Signal Lines</td>
<td>RS-422 (5-wire) Signals: TX+, TX-, RX-, RX+, GND</td>
</tr>
<tr>
<td>Supported Baud Rates</td>
<td>RS-485 (3-wire) Signals: Data+, Data-, GND</td>
</tr>
<tr>
<td>Parity</td>
<td>Odd, Even, None</td>
</tr>
<tr>
<td>Data Bits</td>
<td>8</td>
</tr>
<tr>
<td>Stop Bits</td>
<td>1, 2</td>
</tr>
<tr>
<td>Protocol Supported</td>
<td>Modbus RTU Client (Master)</td>
</tr>
<tr>
<td>Terminated</td>
<td>Permanently installed 120Ω resistor between Data+ and Data-</td>
</tr>
</tbody>
</table>

### Power Consumption

- **2W**
  - Use Class 2 power supply
  - Use conductors rated 60/75°C
  - 3-position terminal strip (Phoenix #1863165) provided

### Wire Range

- 16–28AWG Solid or Stranded Conductor (1.5 mm²)

### Wire Strip Length

- 0.24–0.27 in (6–7 mm)

### Screw Torque

- 1.7 lb-in (0.2 N·m)

### Operating Temperature Range

- 0 to 60°C (32 to 140°F)

### Storage Temperature Range

- -20 to 70°C (-4 to 158°F)

### Humidity

- 5 to 95% RH (non-condensing)

### Environmental Air

- For use in Pollution Degree 2 Environment

### Vibration

- MIL STD 810C 514.2

### Shock

- MIL STD 810C 516.2

### Weight

- 0.2 lbs (0.09 kg)

### Agency Approval

- UL (file #E185989), CE

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**Part Number** | **Description** | **Price**
---|---|---
MB-GW-CON | MB-Gateway-Connector Kit 1ea: Phoenix 3 pin power connector AND 1 ea: Phoenix 6 pin serial connector | $18.00

See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings.