CompactCom™ Modbus Serial Interface

The CompactCom 40 Modbus Serial network communication module is an easy to use low cost communication solution for simple industrial field devices. The product combines the simplicity of the Modbus Serial protocol with the flexibility of the Anybus NP40 technology. It is perfect for applications like basic level I/O blocks, temperature controllers, measuring devices, sensors and other devices where size, implementation effort and time is an issue.

Networks: Simple network independent connections

The CompactCom 40 Modbus Serial software interface is designed to be network protocol independent, making it possible to support several networking systems using the same application software code/driver. The host communication is based on Modbus RTU, a proven protocol which is easy to implement yet flexible enough to provide room for future expansion.

Available on CompactCom 40-series Brick

The CompactCom 40 Modbus Serial Brick version is optimized for use within small sized automation devices and is also suitable for devices with IP65 mechanical rating. The network connector, switches and indicators are not included and can be added according to the requirements of the application.

Features and benefits

- Simple implementation and great connectivity flexibility
- Serial Communications Interface (UART-interface)
- Standard Modbus RTU serial protocol
- The optional connector board has galvanic isolation integrated for a safe and simple in-design
- Low power consumption
- Precertified technology simplifies the certification process
- Short in-design with free technical support from HMS ensures a fast time to market
TECHNICAL SPECIFICATIONS

### Technical Details: B40-1

<table>
<thead>
<tr>
<th>Dimension</th>
<th>36 • 36 mm (Height = max 8 mm on host PCB)</th>
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</thead>
<tbody>
<tr>
<td>RoHS Compliance</td>
<td>Yes</td>
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<tr>
<td>Application interfaces</td>
<td>Serial Communications Interface (UART-interface)</td>
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<tr>
<td>Protocol</td>
<td>Modbus RTU</td>
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<tr>
<td>IO-data capacity</td>
<td>Up to 1400 bytes (depending on network. The module only supports IO-data)</td>
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<tr>
<td>Ethernet features</td>
<td>Integrated 2-port switch, IT functions</td>
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</table>

**Power consumption for the complete network solution:**
- Ethernet versions: max 500 mA
- Fieldbus/Fiber versions: max 250 mA

**Certifications (for the CompactCom 40 series)**
- UL, cUL: Yes
- Network conformance: Yes; Pre-certified for full fieldbus and Industrial Ethernet network conformance

**CE - Declaration of Pre-Conformity**
- Emission EN 61000-6-4: EN50016-2-3 Radiated emission
- EN50022 Conducted emission
- Immunity EN 61000-6-2: EN61000-4-2 Electrostatic discharge
- EN61000-4-3 Radiated immunity
- EN61000-4-4 Fast transients/burst
- EN61000-4-5 Surge immunity
- EN61000-4-6 Conducted immunity

**Environmental Characteristics**
- Operating temp: -40 to 85 °C, -40-176 °F

**Connector boards**

The brick is mounted on the host PCB to enable communication with the chosen network. HMS offers connector boards for all supported networks to facilitate your redesign.

By just switching to another Brick and connector board, you can get connected to any of the other industrial networks with the same hardware.

**B40 Ethernet 2-Port Block Diagram**

*Not all interfaces and LEDs are required in the same design.*

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