With the CPU module serving as the base functionality for the 8810 RTU, all logic and protocols are handled seamlessly, meaning there is only one firmware application for the entire unit.

The standard, built-in OPC UA server communicates natively over standard internet protocols. This allows human-machine interface (HMI) applications to read data from the 8810 RTU. It is also compatible with a wide range of systems, including legacy Varec systems, using RS-232 and RS-485 standards.

**Next Generation Communications Device**

The 8810 Remote Terminal Unit (RTU) is a modular, Ethernet ready, communications device. Its powerful industrial chassis is ideal for integration with tank gauges and other field devices used in inventory management applications. With support for up to six interface modules, it is extremely flexible in handling data exchange across multiple communication protocols.

**Key Features:**
- Ethernet ready, provides high-speed communications in near real time
- Integrates with legacy tank gauging protocols
- Industry standard OPC UA
- Modbus for host or field integration
- Supports up to 400 tanks
- Supports up to 24 communication channels
- Digital input/output for alarms, monitoring, and control
- Intelligent scanning based on tank activity
- Interfaces with multiple different manufacturer’s tank gauging devices
- Embedded volume, density, and weight API 2004 tank calculations
- Includes the Vertue browser-based configuration application
8810 Remote Terminal Unit
One network to access your process data anytime, from anywhere

**Vertue for Streamlined Configuration**

The 8810 RTU comes with its own configuration utility. Vertue is an intuitive and user-friendly browser-based application.

Vertue is optimized for bulk liquid applications and has efficiency tools built in for common actions to streamline the configuration process. It also includes the option to utilize pre-configured or customized diagnostics. Vertue can be configured using any workstation on the network and supports offline configuration.

The following add-on modules are available as options: Serial, Bi-Phase Mark, Digital I/O, Mark/Space, and Tankway.

<table>
<thead>
<tr>
<th>Serial:</th>
<th>Digital I/O:</th>
<th>Bi-Phase Mark:</th>
<th>Mark/Space:</th>
<th>Tankway:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any serial channel can be configured for Modbus Slave or Master protocols</td>
<td>Logic and digital signal processing implemented in CPU module</td>
<td>Supports connection and communication to Honeywell Enraf Bi-Phase Mark loops</td>
<td>Integration to Varec devices, i.e. model numbers 1800, 1900, 4000, 2910, and 2920</td>
<td>Two independent Tankway channels</td>
</tr>
<tr>
<td>Easy integration and retrofit through mappings that mimic other systems</td>
<td>Includes eight ports for interfacing with digital I/O circuits</td>
<td>Provides four interface ports per module</td>
<td>Supports GSI 2000 M/S transmitters</td>
<td>Supports L&amp;J Tankway tank gauge transmitters MCG1000, MCG1500, and MCG2000</td>
</tr>
<tr>
<td>Support for user mappings of Modbus registers to 8810 RTU tags and parameters</td>
<td>Nine combination of inputs and outputs on a single eight channel module</td>
<td>Each port includes two termination plugs</td>
<td>Two independent Mark/Space channels</td>
<td>Flexible power distribution, each channel can be independently powered by the 8810 back plane or an external power supply</td>
</tr>
<tr>
<td>Standard Modbus mappings allow external hosts to connect and retrieve data without impacting the current 8810 RTU configuration</td>
<td>Supports integration of digital signals such as alarms</td>
<td>Two terminal plugs per port allows gauging loops to be combined into one channel</td>
<td>Supports high speed and low speed Mark/Space transmitters</td>
<td>Each channel has a replaceable fuse</td>
</tr>
<tr>
<td>Used for both host and field functionality</td>
<td>LED indicators denotes status for each channel, i.e. transmit, receive, power selection/fuse, and bus failure</td>
<td>Two terminal plugs allow a connection point for a test gauge or transmitter without disturbing an existing loop</td>
<td>LED indicators denote status for each channel</td>
<td>LED indicators denotes status for each channel</td>
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<tr>
<td>Supports legacy 8130 RTU protocol</td>
<td>2500 V(rms) isolation for each channel from field to internal electronics</td>
<td>LED indicators provide visual status of each channel</td>
<td>2500 V(rms) isolation for each channel from field to internal electronics</td>
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