SST™-ESR2-CPX Modules for MODBUS* (SST-ESR2-CPX-S, and SST-ESR2-CPX-P)

PLC Communication Module

SST™-ESR2-CPX Modules integrate MODBUS* and MODBUS/TCP* connections for Rockwell Automation CompactLogix L2 and L3 controllers, enabling high-performance, low-cost networking solutions for industrial automation applications

**Features and Benefits**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
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<tbody>
<tr>
<td>In-rack design</td>
<td>Enables easy integration into the controller. Delivers a complete Rockwell 1769 I/O and backplane compatible solution, the most convenient and common way of system configuration.</td>
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<tr>
<td>Simultaneous supports MODBUS TCP (Ethernet) and MODBUS Serial networks making this a Universal MODBUS solution</td>
<td>Enables easy specification for any MODBUS application. Reduces inventory. Offers gateway function. Reduces cost and rack space. Provides ability to mix and match networks.</td>
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<tr>
<td>2,500V electrical isolation per port</td>
<td>Ensures a robust and reliable network with high immunity to electrical noise.</td>
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<tr>
<td>Micro SD card slot</td>
<td>For easy module swap-out: Insert SD card for automatic configuration file download.</td>
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<td>Modules can be set up using user-friendly configuration software</td>
<td>Enables fast, easy implementation, quick commissioning and remote diagnostics.</td>
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<td>Easy exchange of large quantities of I/O data (32,000 words)</td>
<td>Eliminates writing ladder logic for direct mapping of MODBUS I/O process data into the CompactLogix controller. Handles the most demanding/data-intensive applications.</td>
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<td>Standard (SST-ESR2-CPX-S) and Plus (SST-ESR2-CPX-P) versions available (32 and 256 commands per port respectively) with low and higher price points</td>
<td>Enable design and cost flexibility. Tailor the module to the application and price point.</td>
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<tr>
<td>Built-in LED on the front of each module</td>
<td>Enables easy viewing of the module status.</td>
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**Applications**

**Machine Builders**
- Complex machines
- Packaging

**Factory Automation**
- Material handling

**Process Control**
- Water, wastewater treatment
- Food and beverage industry
- Oil and gas
- Pharmaceutical

*MODBUS is a registered trademark Schneider Automation Inc.*
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PLC Communication Module

Specifications

Hardware
One RJ45 10/100 Mbps Ethernet port for
Configuration, Diagnostics and MODBUS TCP
Two serial ports, 110 bps to 115.2 kbps, RS232/RS485/RS422, RJ45
Two RJ45 to DB9 cables included
Independent Galvanic isolation 2,500V per port
Micro SD card
In-rack CompactLogix PLC
Operating temperature: 0 to +60°C
Storage temperature: -40 to +85°C
LINK, SPEED, SD, OK, STATE, FAULT diagnostic LEDs

Certification
CE, RoHS
FCC
UL Class I Div 2, Groups A,B,C,D (pending)
Korea CC (pending)
Lloyds (pending)
GOST (pending)
ATEX (pending)

Software
Engineering Tools: Configuration Console
(Configuration stored on SD card)
Windows (32-bit): Seven, Vista, XP
No Ladder Logic to write;
Direct mapping of MODBUS I/O process data into
the Logix controller
Paging access (AOI provided), with up to 32k words
shared for input, output and status data
(Plus Version)

Protocols
MODBUS Master and/or Slave ASCII and RTU
MODBUS TCP/UDP Client and Server

Ordering Information

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Product Name</th>
<th>Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>112073-0005</td>
<td>SST-ESR2-CPX-P</td>
<td>Plus, MODBUS CPX Master/Slave, Server/Client</td>
</tr>
<tr>
<td>112073-0006</td>
<td>SST-ESR2-CPX-S</td>
<td>Standard, MODBUS CPX Master/Slave, Server/Client</td>
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Universal MODBUS* Module, SST™-ESR2-CPX Networking Capabilities Diagram

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www.molex.com/link/sstcommunicationmodules.html