SST™-ESR2-CPX Universal Modbus* Modules

SST™-ESR2-CPX Modules connect Rockwell Automation CompactLogix L2, L3 and L4 controllers to Modbus* Ethernet and Modbus Serial networks, enabling high-performance, low-cost solutions for industrial automation applications.

**Features and Benefits**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefits</th>
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<tbody>
<tr>
<td>Modbus* Ethernet and Modbus Serial at the same time</td>
<td>Delivers an extremely flexible design and easy upgrades</td>
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<td>Two Modbus Serial ports (software configurable)</td>
<td>Offers more value. Handles any Modbus Serial application</td>
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<tr>
<td>One Modbus Ethernet port (software configurable)</td>
<td>Suitable for any Modbus TCP/UDP application</td>
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<td>MicroSD card slot (8 GB MicroSD card included)</td>
<td>Facilitates easy module swap-out</td>
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<td>10/100 Mb Ethernet port</td>
<td>Enables fast configuration downloads. Provides backplane or front-module configuration options.</td>
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<td>2,500-volt isolation</td>
<td>Ensures high immunity to harsh, noisy networks</td>
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<td>MTBF of 181 years</td>
<td>Provides reliable, trouble-free usage</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.*
SST™-ESR2-CPX Universal Modbus* Modules

Specifications

**Description**
Supports CompactLogix L2, L3 processors, ver. 15 and higher, L4 Ver. 20 and higher
Operating temperature: 0 to 60°C
Storage temperature: -40 to 85°C
Relative humidity: 5 to 95%, non-condensing
Independent, 3 electrically isolated communication ports, 2,500 Volts
Modbus Master and/or Slave functionality, ASCII and RTU formats
Modbus TCP/UDP, client and server supported
1x Ethernet, 10/100 Mbps, RJ45 (for configuration and diagnostics)
2x Serial, 110 bps to 115.2 kbps, RS232/RS485/RS422, RJ45 (DB9 male supplied cable)
OS supported: Windows XP, 7 (32, 64-bit); Vista, 8 (32, 64-bit)
Paging access (AOI provided), up to 32,000 words for input, output and status data (Plus version)
MTBF: 181 years at 25°C
Maximum Distance Rating: 4 slots

**Included Hardware/Software**
One, SST-ESR2-CPX-(S/P) Universal Modbus Module
One, 8 GB MicroSD card
Two, 45 cm, RJ-45 to DB-9 male patch cables

**Compatible Protocols**
Modbus Master (RTU or ASCII)
Modbus Slave (RTU or ASCII)
Modbus TCP and UDP Client and Server

**Conformance**
RoHS compliant
CE certified
FCC
Korea CC
Ex (ATEX)
UL Class I Div 2, Groups A,B,C,D

**Ordering Information**

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Product Name</th>
<th>Module</th>
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<tbody>
<tr>
<td>112073-0006</td>
<td>SST-ESR2-CPX-S</td>
<td>SST™ Universal Modbus Module for CompactLogix, Standard Version</td>
</tr>
</tbody>
</table>

**Ordering Information**

**Standard Version**
496-word database
32 Modbus commands/port
Up to 32 devices and/or ports
OEM, machine builders, small applications

**Plus Version**
32,000-word database
256 Modbus commands/port
Up to 127 serial devices per port and 128 Ethernet devices
OEM, machine builders, large networks
SCADA applications

Universal MODBUS* Module, SST™-ESR2-CPX Networking Capabilities Diagram

*Modbus is a registered trademark Schneider Automation Inc.
†CompactLogix is a registered trademark of Rockwell Automation, Inc.

www.molex.com/link/sstcommunicationmodules.html