Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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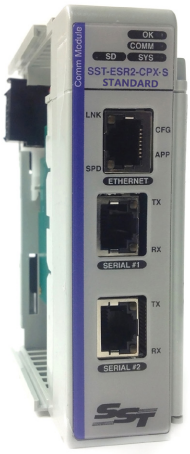
SST™-ESR2-CPX Universal Modbus* Modules

molex®

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



SST-ESR2-CPX-S Standard Version

SST-ESR2-CPX-P Plus Version

Features and Benefits

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

Applications

Machine Builders

- Complex machines
- Packaging

Factory Automation

- Material handling

Process Control

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

Cyclic Function Screen Showing Data Overlapping Errors, Data mapping, Table Areas, Message Details

*Modbus is a registered trademark Schneider Automation Inc.

SST™-ESR2-CPX Universal Modbus* Modules

molex®

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
One, product CD (engineering tools, configuration console)
Two, 45cm, 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

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

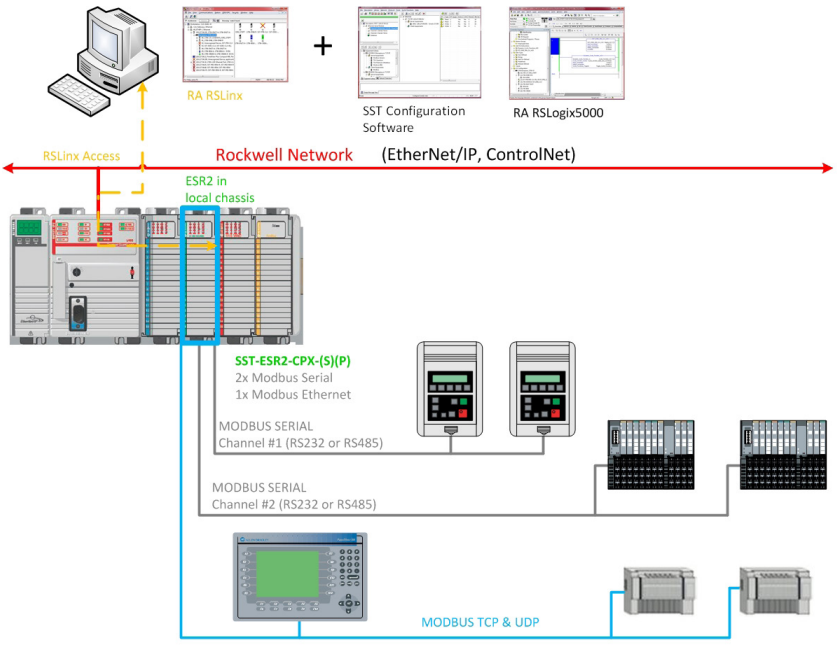
Plus Version
32,000-word database
256 Modbus commands/port
Up to 127 serial devices per port and 128 Ethernet devices
OEM, machine builders, large networks SCADA applications

Ordering Information

Order No.	Product Name	Module
112073-0005	SST-ESR2-CPX-P	SST™ Universal Modbus Module for CompactLogix, Plus Version

Order No.	Product Name	Module
112073-0006	SST-ESR2-CPX-S	SST™ Universal Modbus Module for CompactLogix, Standard Version

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

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