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SST™ backplane communication module connects your Rockwell ControlLogix® controller to PROFIBUS networks.

molex
one company › a world of innovation

SST-PB3-CLX-RLL

ControlLogix Communication Module
PROFIBUS Master and Slave

Leader for 15 years in connectivity for Rockwell ControlLogix controllers, SST™ communication modules are the perfect choice for a wide range of applications including factory automation, process control and complex machines.

SST PB3 module connects Rockwell ControlLogix controller to PROFIBUS networks. Each module has a communication port that act as PROFIBUS-DP Master and/or Slave protocols to exchange data with other PROFIBUS compatible devices.

SST PB3 module is delivered with its "Add-On-Profile" (AOP) for easy integration into the ControlLogix system using the RSLogix 5000 software. The data transfer from the SST module to the ControlLogix processor supports 2 modes; a "direct mode" allowing mapping of PROFIBUS data in I/O processor image (496 inputs bytes / 496 output bytes) and a "pagging mode" allowing access to 1984 Input bytes and 1968 Output bytes of PROFIBUS data from of user-defined data space set up into Logix CPU memory.

Save your time, the SST module doesn't require any ladder logic programming to be used. The configuration is created using Windows engineering console software connected via RLL (Remote Link Library) functionality allowing a remote access to the SST module for the configuration and the diagnostics through Rockwell network architectures (Ethernet/ControlNet/DeviceNet).

The SST engineering console allows the user to define the network parameters, PROFIBUS devices and the cyclic data exchanges. The SST software pacakge includes diagnostic tools to help with the commissioning and monitoring of the PROFIBUS connection. Thus, the user-friendly tools are available for controlling the communication in commissioning phase (PROG mode). This same information is also available in production (RUN mode) through status words making it possible for the user to manage the execution of the control application in its ladder logic.



Class 1, Div 2

FEATURES AND BENEFITS

- *Save time!*
  No ladder logic to write for configuration and data transfer between module and ControlLogix processor
- RLL feature: configure and diagnose PROFIBUS network remotely via Rockwell RSLinx
- Advanced Windows engineering configuration and diagnostics console
- Automatic PROFIBUS devices detection
- Up to 8 SST™ modules can be used in one ControlLogix rack
- Support local and remote ControlLogix chassis
- Add-On-Profile; for increased functionality and reduced commissioning time.

New!

- Add-On-Profile! For increased functionality and reduced commissioning time.
- Conformal coating module version; improves and extends the working life and ensures security and reliability of performance

APPLICATIONS

- Control/Command of Profibus slave devices to perform tasks with strong critical time constraints
- Collect Profibus data for Supervision/Scada to monitor plant
- Bridge Rockwell networks to Siemens environment using PROFIBUS Master&Slave modes simultaneously









SST-PB3-CLX-RLL

ControlLogix Communication Module
PROFIBUS Master and Slave

SPECIFICATIONS

Product Information

Product Package
Engineering Tools
- Configuration console
- Test and diagnostic tools

Supported OS:
- Windows (32-bit): XP, 2000

Technical Data
Bus interface
- Rockwell 1756 ControlLogix
- Support multiple modules in a chassis
- Local and remote rack

Memory
- 512 KB of onboard shared memory
- 512 KB of flash memory (user configuration and firmware)

Diagnostics
- 4 scrolling characters display
- 3 LEDs indicator:
  - Health of the network (COMM)
  - Communication status (SYS)
  - Initialization complete and module is ok (OK)

I/O Mapping
- Maximum of 1984 input bytes
- Maximum of 1968 output bytes
- 250 words status

Current Consumtion:
850 mA @ 5V or 1.75 mA @ 24V

Operating Temperature: 0 to +60°C

Storage Temperature: -40 to +85°C

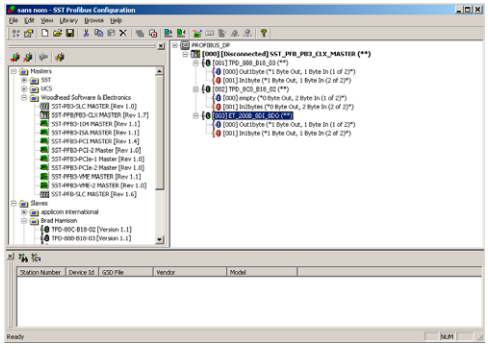
MTBF: 81.2 years

Communication Ports
1x PROFIBUS port
- Sub-D, 9-pin, female
- PROFIBUS RS485 with galvanic insulation (500 V)
- 9.6 Kbps to 12 Mbps

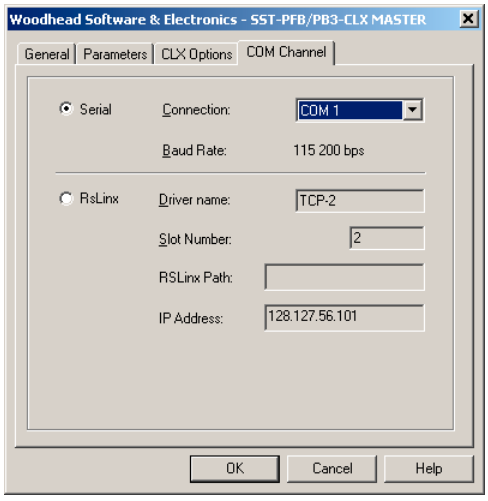
1x USB Port
- Type A, USB 2 and 1.1 compatible
- User configuration boot
- Module firmware upgrade

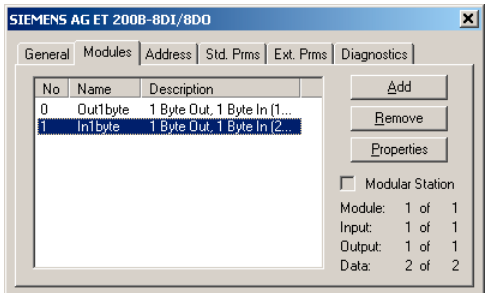
Protocols
- PROFIBUS DP-V0 Class-1 & Class-2
- PROFIBUS DP-V1 Class-1 & Class-2
- PROFIBUS DP-V0 Slave

Conformances
- CE
- RoHS
- Class 1 / Div 2 - Groups A,B,C & D Hazardous (Classified) locations
- Rockwell Encompass



- Configuration Console -





ORDERING INFORMATION

Order No.	Engineering No.	Description
1120160018	SST-PB3-CLX-RLL	SST™ PROFIBUS Scanner for AB ControlLogix, includes RLL
1120160023	SST-PB3-CLX-RLL-CC	SST™ PROFIBUS Scanner for AB ControlLogix, coated version, includes RLL
1120160019	SST-PB3-CLX-DTM	SST™ PROFIBUS Scanner for AB ControlLogix, includes RLL and CommDTM driver license
1120160020	SST-PB3-CLX-DTS	SST™ CommDTM update driver license for PROFIBUS Scanner

North America: US: +1 (630) 969-4550 – Canada: +1 519 725 5136
Europe: France: +33 2 32 96 04 20 – Germany: +49 7252 94 96 0 – Italy: +39 (02) 950551 – UK: +44 (1252) 720720
Asia: China: +86 21-5048-0889 – Singapore: +65 6-268-6868 – Japan: +81 46-265-2325 – Korea: +82 31-492-9000

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