IP67-rated PB3 Remote Module connects Rockwell PLCs to PROFIBUS networks over EtherNet/IP; Rockwell users in factory-automation and process-control applications benefit from on-machine installation, reduced commissioning time and lower cabling costs

The SST™ PB3 Remote Module for PROFIBUS is a stand-alone hardware platform or linking device, with on-board PROFIBUS and Ethernet communication ports. The module provides a fast, easy solution for adding PROFIBUS Master and Slave connectivity to Rockwell Logix controllers (ControlLogix, CompactLogix, SoftLogix etc.) in factory-automation, process-control and complex machine applications.

The unique harsh-duty, IP67-rated remote design offers extra functionality over in-chassis modules; allowing for on-machine or in-field mounting and reducing expensive PROFIBUS cabling costs that occur when controller and field devices are located some distance apart.

PB3 Remote Module hardware and software are 100% designed, developed and produced in Molex facilities. For additional information visit: www.molex.com/link/sstpb3remote.html

Features and Benefits

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module designed for flexible, remote installation</td>
<td>Saves cost by reducing expensive PROFIBUS cabling; can be installed on-machine / closest to PROFIBUS field devices; No rack limitation of Rockwell PLC backplane</td>
</tr>
<tr>
<td>IP67-rated</td>
<td>Dust and water resistant. Tested to withstand shock, high-vibration and high temperatures; Suitable for harsh environments and direct on-machine mounting without need for protective cabinet</td>
</tr>
<tr>
<td>Remote configuration and diagnostics using Engineering Console</td>
<td>Quick commissioning via Ethernet connection; saves customer time and associated costs; PB3 remote module engineering console can be used simultaneously with Rockwell Logix connection</td>
</tr>
<tr>
<td>Direct mapping of Profibus I/O process data into the Logix controller</td>
<td>No ladder logic to write; easy share of I/O process data</td>
</tr>
<tr>
<td>Rockwell Logix connection</td>
<td>Module can be fully integrated into Rockwell software architecture; EtherNet/IP is preferred network choice and strategy of Rockwell controller users</td>
</tr>
<tr>
<td>Add-on-Instructions provided</td>
<td>Saves integration time; configure the PB3 Remote Module in minutes into Rockwell RSLogix5000 software</td>
</tr>
<tr>
<td>CommDTM driver included in software package</td>
<td>Enables Rockwell users in process-control industries to perform asset management</td>
</tr>
<tr>
<td>Integrated 2-port switch</td>
<td>Daisy-chain wiring possible; wire entire application without switches; achieve cost savings</td>
</tr>
</tbody>
</table>
Applications

Factory automation
- Automotive assembly lines
- Automotive body shop
- Material handling

Process control
- Wastewater treatment
- Agro food industry
- Oil & Gas
- Pharmaceutical

Machine builders
- Complex machines
- CNC machines

Specifications

HARDWARE
Power supply: 24V
2x Power connectors, M12, A-Code, 24V DC
2x Ethernet ports switch, M12, Female, D-Code
2x Profibus ports, M12, Female, B-Code
Flash memory for:
  - Module configuration
  - Firmware upgrade
Diagnostic LEDs
  - 1x Module status
  - 1x PLC connection status (RUN/PROG)
  - 1x PROFIBUS status
  - 1x PROFIBUS Class-2 communication
IP67 housing
Compact Dimensions: 22 x 6 x 6 cm
On-machine mount
Operating temperature: -25 to +70°C
Storage temperature: -40 to +70°C
Certification
  - CE, RoHS
  - UL, Class 1 Div 2
  - KoreanCC, China (CCC)

SOFTWARE
Can scan up to 125 Slaves
As a Master supports a maximum of 1984 bytes of input data + 1968 bytes of output data
Supports all standard PROFIBUS baud rates (9600, 19200, 31.25k, 45.45k, 93.75k, 187.5k, 500k, 1.5M, 3M, 6M, 12M)
Supports the following DP-V1 Master services:
  - Class 1: MSAC1_Read, MSAC2_Write
  - Class 2: MSAC2_Initiate, MSAC2_Read, MSAC2_Write, MSAC2_Idle, MSAC2_Abort
Can handle up to 16x Class-1 and 16x Class-2 commands simultaneously
Can act as a DP-V0 Slave only
Allows for simultaneous operation of PROFIBUS Master and Slave
IP Addressing: DCHP (default), DHCP with name, Static, Flash Saved (0xF5/0xF6 EIP objects)
Engineering console tools for configuration and diagnostic
  - Automatic DP slave device detection
  - Automatic naming of I/O process variable based on GSD file
  - Export of I/O process variables in RSLogix L5X format
Windows (32-bit): Seven, Vista, XP
CommDTM driver for FDT Frame tools
PROFIBUS master configuration
Device diagnostics
Device detection

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## Typical System Architecture

![Diagram of system architecture](image)

## Ordering Information

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Engineering No.</th>
<th>Description</th>
<th>Operating Temperature Range</th>
<th>Protocol</th>
</tr>
</thead>
<tbody>
<tr>
<td>112016-5002</td>
<td>SST-PB3-REM-R</td>
<td>IP67 PROFIBUS Remote Module with DTM driver, 24V</td>
<td>-25 to +70°C</td>
<td>PROFIBUS</td>
</tr>
</tbody>
</table>

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