The BradCommunications™ SST™ PROFIBUS® scanner connects your Allen-Bradley® SLC™ 5/03 or higher controller to PROFIBUS DP.

30 Oct. 09
DW2006134

PROFIBUS DP Scanner

For the Allen-Bradley SLC 500 Controller

Features

- **Enhanced design!**
  - **100% backward compatible with previous generation (SST-PFB-SLC)**
  - **Manages DP-V1 Services including SLC ladder logic samples**
  - **Doubling of M0 and M1 data area up to 1000 words**
  - **Module can "Set Slave" address**
- **PROFIBUS DP Master Configuration Software**
- **Supports all PROFIBUS baud rates including 31.25 and 45.45 kbps**
- **Simultaneous operation of PROFIBUS DP Master and Slave**
- **Flash memory for storage of DP Master I/O configuration**
- **Fast, easy set up into SLC backplane, PROFIBUS I/O data is automatically mapped into the SLC's processor's I, O files and into MO and MI files residing on PB3-SLC**
- **Supports exported configuration files from the SST DP configuration software and Siemens COM PROFIBUS**
- **Multiple SST-PB3-SLC modules can be used in one SLC rack**

Protocols

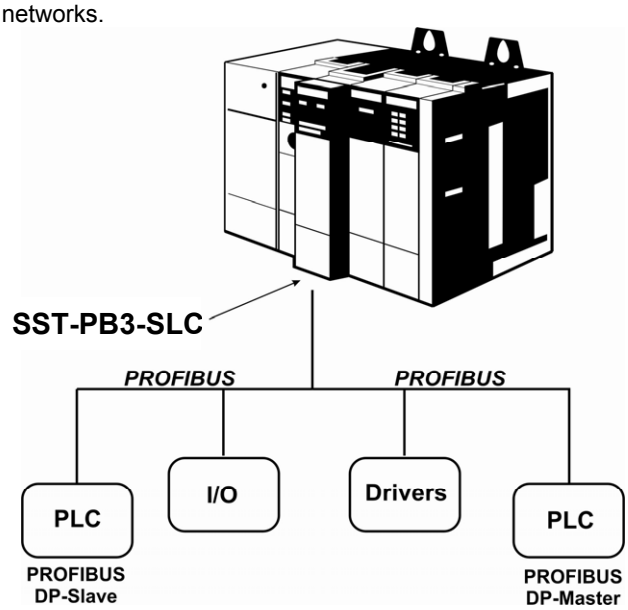
- **PROFIBUS DP-V0 Master Class 1&2**
- **PROFIBUS DP-V1 Master Class 1&2**
- **PROFIBUS DP-V0 Slave**

Typical Applications

- **Packaging machinery**
- **Conveyor & handling systems**
- **Food products machinery**

Overview

The BradCommunications SST PROFIBUS scanner connects your Allen-Bradley SLC 5/03 or higher controller to PROFIBUS as a master or slave to scan or emulate PROFIBUS DP I/O. With the new user-defined data space of 2064 Bytes Input and 2064 Bytes Output, the BradCommunications™ SST™ Profibus module provides a cost efficient solution to connect the SLC CPU with large PROFIBUS networks.



A 9-pin serial port included on the scanner provides for firmware upgrades in the field and the upload of I/O configurations.

The SLC's processor logic scan and the PROFIBUS I/O scan are independent of each other. The SLC processor reads the scanner input data during its input scan and writes the output data during its output scan. The scanner reads input data from the slaves and writes output data to the slaves independent of what the SLC is doing. Slave status, diagnostic status information on all slaves, network diagnostic counters and DP Master diagnostic counters are maintained by the scanner. The scanner does not require the set up of a G-file in the SLC.

Woodhead

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PROFIBUS® DP Scanner

PLC Network Interface

Diagnostic & Software Tools

Configuration Software

- **Browse your DP network for slave devices you want to include in your DP Master configuration using the DPView component**

Scanner Software

- **Maintains slave status, diagnostic status information on all slaves, network diagnostic counters, and DP Master diagnostic counters**
- **Maintains network and I/O module status information including:**
  - **DP Master Slave status table**
  - **Network diagnostic counters**
  - **DP Master diagnostic counters**

Diagnostic LEDs

- **COMM and SYS LEDs provide immediate notification of network and system errors**

Other PROFIBUS Products

- **PROFIBUS modules for Allen-Bradley® ControlLogix®**
- **PROFIBUS network interface cards (USB, PCI, CompactPCI, PC/104, ISA, VME64) with many user interfaces (DLL, OPC, ActiveX...)**
- **PROFIBUS gateways to Serial and Ethernet networks**
- **IP67 PROFIBUS I/O modules (M8/M12 connectors)**
- **Full metal PROFIBUS connector**
- **Cable, cordsets, receptacles**

Network Specifications

Protocol	• PROFIBUS DP-V0 Master, class 1&2 • PROFIBUS DP-V1 Master, class 1&2 • PROFIBUS DP-V0 Slave (up to 122 words of input data and 122 words of output data as slave)
LAN Controller	• Siemens ASPC2
Slaves Supported	• Maximum of 125
I/O per Slave	• Maximum of 244 bytes in/out
I/O Mapping (for SLC™)	• I and O files: 32 words input + 32 words output • M1 and M0 files: 1000 words input + 1000 words output (128 words in / out if configuring with COM PROFIBUS) • Slave data is mapped into I, O, M0, M1 files in the SLC. Mapping depends on addresses assigned in the configuration created
Data Rate	• 9600, 19200, 31.25k, 45.45k, 93.75k, 187.5k, 500k, 1.5M, 3M, 6M, 12M
Cable	• Belden 3079A • BradConnectivity™ Brad Harrison® 85-0001 PVR2 conductor with shield, UL-listed
Connector	• DB9 female connector

Hardware Specifications

Bus Interface	Allen-Bradley® SLC™ 5/03 or higher
Processors	Protocol processor: Freescale Coldfire MCF5272 Backplane processor: Altera Cyclone II
Memory	• 2 MB of local Coldfire SDRAM • 32 MB of local NIOS DDR • 512 KB of onboard shared memory • 512 KB of sectored flash memory for storage of program and configuration data
Diagnostics	Two LEDs indicate: 1. health of the PROFIBUS network (COMM) 2. communication status with PROFIBUS slaves (SYS)
Backplane Current Consumption	750mA @ 5V from a supply delivering Separated Extra Low Voltage (SELV)
Operating T°	0ºC (32ºF) up to +50ºC (122ºF)
Storage T°	-40ºC (-40°F) up to +85ºC (185°F)
Relative Humidity	5% to 95% non-condensing
Pollution degree	Degree 1 - no pollution, or only non-conductive or non-corrosive pollution
RoHS Compliant	Yes

Ordering Information

Part Number	SAP	Description
SST-PB3-SLC	1120160022	BradCommunications™ SST™ PROFIBUS Scanner for Allen-Bradley SLC 500

Other related products:

Part Number	SAP	Description
SST-PB3-CLX-RLL	1120160018	BradCommunications™ SST™ PROFIBUS Scanner for Allen-Bradley ControlLogix
SST-PB3-CLX-DTM	1120160019	BradCommunications™ SST™ PROFIBUS Scanner for Allen-Bradley ControlLogix and CommDTM driver

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