



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

PROFIBUS DP Scanner

For the Allen-Bradley SLC 500 Controller

Features

- BradCommunications SST PROFIBUS DP Master Configuration Software
- Supports all standard PROFIBUS baud rates (up to 12 Mbaud)
- 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, MO and MI files
- Supports exported configuration files from the BradCommunications SST DP configuration software and Siemens COM PROFIBUS

Protocols

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

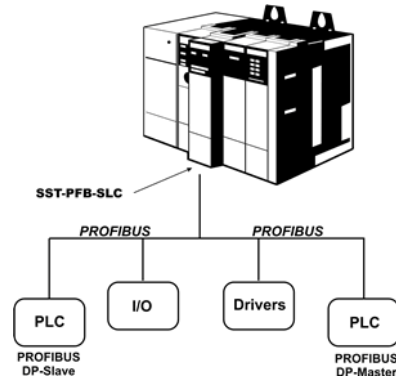
Typical Applications

- 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.



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 continues reading input data from the slaves and writing 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.



Diagnostic & Software Tools

BradCommunications™ SST™ 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® and PLC-5®
- PROFIBUS network interface cards (PCI, C-PCI, PC/104, ISA, VME64, PCMCIA) with many user interfaces (DLL, OPC, ActiveX...)
- PROFIBUS gateways to ASi, Serial and Ethernet networks
- IP67 PROFIBUS I/O modules (M8/M12 connectors)
- Full metal PROFIBUS connector
 - IDC-technique provides quick and error-free connection
 - Optional diagnostic LED reduces downtime
- PROFIBUS media
 - Cable, cordsets, receptacles

Network Specifications

Protocol	<ul style="list-style-type: none"> • PROFIBUS DP Master V0, class 1&2 • PROFIBUS DP Slave V0
LAN Controller	<ul style="list-style-type: none"> • Siemens ASPC2
Slaves Supported	<ul style="list-style-type: none"> • Maximum of 96
I/O per Slave	<ul style="list-style-type: none"> • Maximum of 244 bytes in/out
I/O Mapping (for SLC™)	<ul style="list-style-type: none"> • I and O files: 32 words in, 32 words out • M1 and M0 files: 500 words in / out (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	<ul style="list-style-type: none"> • All standard PROFIBUS data rates up to 12 Mbps
Cable	<ul style="list-style-type: none"> • Belden 3079A • BradConnectivity™ Brad Harrison® 85-0001 PVR2 conductor with shield, UL-listed
Connector	<ul style="list-style-type: none"> • DB9 female connector

Hardware Specifications

Bus Interface	Allen-Bradley® SLC™ 5/03 or higher
Processor	Intel i960
Memory	<ul style="list-style-type: none"> • 512 KB of local i960 RAM • 288 KB of onboard shared memory • 512 KB of sectored flash memory for storage of program and configuration data
Diagnostics	Two LEDs indicate: <ol style="list-style-type: none"> 1. health of the PROFIBUS network (COMM) 2. communication status with PROFIBUS slaves (SYS)
Backplane Current Consumption	700mA @ 5V from a supply delivering Separated Extra Low Voltage (SELV)
Operating Temperature	0°C (32°F) up to +50°C (122°F)
Storage Temperature	-40°C (-40°F) up to +85°C (185°F)
Relative Humidity	5% to 95% non-condensing

Ordering Information

Part Number	Description
SST-PFB-SLC	PROFIBUS Scanner for SLC 500 Series
SST-PFB-PLC5	PROFIBUS Scanner for Allen-Bradley PLC-5®
SST-PFB-CLX-RLL	PROFIBUS Scanner for Allen-Bradley ControlLogix®, includes Remote Link Library
APP-ESP-GTW	Gateway for PROFIBUS to serial/Ethernet
SST-PB3-PCU	PROFIBUS PCI interface card
TBDPB-4xxx-B8U	IP67 PROFIBUS I/O compact block 4 ports, 8 channels
PA9D01-42	PROFIBUS connector with integrated diagnostics, vertical
PA9S01-42	
MA9D00-42	
PBSTRIP	Cable stripping tool for use with PROFIBUS connector



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