# PROFIBUS VME INTERFACE CARD =

## Overview

The SST Profibus interface card connects your VME bus computer to Profibus DP, FMS client<sup>+</sup>, and FDL.

## **Applications**

The SST Profibus VME interface card connects the following to Profibus:

- VME based programmable controllers
- VME based motion controllers
- VME based computers

#### Features

- Supports all standard Profibus baud rates: 9.6
  Kbaud to 12 Mbaud
- Simultaneous operation of Profibus DP Master, DP Slave, FDL (layer 2), and FMS client<sup>†</sup>
- Intel 32-bit i960 RISC processor utilized with 512 Kbytes of 32-bit local RAM
- 512 Kbytes of flash memory for storage of programs and configuration

### VME Specifications

### • Size:

→ IEEE 1014, 6U height, P1 compatible

### Capabilities:

- → memory SD16, SADO24
- → registers SD08(O), SADO16

### Addressing:

- standard: 256 Kbytes on any 256 Kbyte boundary or 16 Kbytes on any 16 Kbyte boundary
- → short: 8 bytes on any 1 Kbyte boundary

### Interrupts:

- → switch selected level 1-7
- → software set 8-bit status /ID
- → release on acknowledge (ROAK)

## Available for SST Profibus Cards

- DP Configuration software
- Custom driver development software
- Sample code and Microsoft Windows 32-bit kernel drivers
- 10-year warranty
- Global Technical Support (24 hours, 7 days)



## **Custom Driver Development**

The Profibus VME card interfaces with the host processor through shared dual ported memory. A fully documented host memory interface is provided. The card does not require external libraries, which simplifies custom driver development in your chosen operating system. DOS example programs with C source are included with each card to assist you with your software development.

Extremely Fast Scan Rate for DP Master 6000 I/O in 1 ms!





### Hardware Specifications

- 24 Mhz Intel i960 RISC processor with 512 Kbytes of 32-bit local RAM
- 256 Kbytes shared 16-bit RAM, accessible from the host as 256 Kbytes or in 16 Kbyte pages
- 512 Kbytes sectored flash memory for storage of card firmware and configuration data
  - → run programs from flash
  - → store network parameters, DP master, DP slave, FMS client<sup>+</sup> configurations in flash
- Siemens ASPC2 LAN controller for Profibus **functions**
- Standard Profibus 9-pin D-connector
- 5-pin Phoenix connector (no bus connector required in this case)
  - → built-in termination can be added by making connections on the Phoenix connector
  - → internally connected to 9-pin connector
- Serial port for downloading software modules and configuration data
  - → don't need to download from the host computer
  - → program modules and configurations into flash from the serial port
- Supports Profibus baud rates from 9.6 Kbaud to 12 Mbaud
- Hardware watchdog
- Optional host watchdog to shut down operation if host application fails
- Diagnostic LED gives instantaneous status of network errors, DP master, DP slave, FMS client\* and FDL
- **CE** compliant
- Operating temperature: 0 to 50C (32 to 122°F)
- Storage temperature: -25 to 70C (-13 to 158°F)
- Power requirements: maximum 950 mA at 5 V

supports FMS client services only, on a DEFINED, MASTER to MASTER ACYCLIC (MMAC) connection type

### Other Reference Materials

#### Web Site

www.mysst.com/cards/profibus/pfb.htm

### **Data Sheets**

- 6000 I/O in 1 mS
- **Profibus Configuration and Diagnostic Software**

### **Related Profibus Products**

- **Network Interface Cards connect various** computer bus formats to industrial networks
- **Embedded Network Solutions provide OEMs** and device manufacturers with connectivity to industrial networks
- **Network Diagnostic and Configuration Software**
- I/O Simulation Software provides control systems testing and operator training
- **Network Gateways provide connectivity** between two dissimilar networks; over 45 industrial network protocols currently supported
- **PLC** Network Modules connect programmable controllers to industrial networks and I/O devices
- Data Servers include OPC and DDE Servers

### **Affiliations**

SST is an active member of Profibus International

## Ordering Information

Order part number 5136-PFB-VME

Also available from SST:

Gateways **PLC Modules Data Servers Interface Cards Embedded Solutions** I/O Simulation Software Diagnostic and Configuration Software

**EPFBVME** 

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