Woodhead's SST™ Profibus Interfaces provide high-performance control and the support required for your Profibus applications.

February 2005
DW200578

3rd Generation SST™ Interfaces

For Controlling and Monitoring Profibus Applications

SST™ PCI Bus Profibus Interface

3.3V - 5V
PCI-X
Universal Bus

Woodhead's SST™ network interface cards are ideal for applications where high-performance control and reliability are required. Backed by superior support and service, Woodhead network interfaces support a wide range of network protocols and bus formats.

Overview

SST™ Network Interface Cards for Profibus can be found in many applications including:

- Operator Interface
- Human-Machine Interface
- PC Control
- Device Development
- Network Diagnostics

Software Tools

Software available for the SST™ Profibus Interface Cards enables fast integration of industrial communication into your application. ▲

Configuration Console

Diagnostic and Test Tools

OPC Browser

Features

- **Simultaneous execution of Profibus DP Master, DP Slave and FDL (layer 2)**

- **Master Class 1 and Class 2 DPV1 support through Windows API**

- **Supports all standard baud rates: 9.6 Kbaud to 12 Mbaud**

- **Flash memory for storage of configuration**

- **Auto baud detection**

- **Diagnostic LEDs for system status, watchdog timeout, and communications status**

- **Support for various bus formats**

- **Single and two channel versions available**

OS and Drivers Supported

- **Microsoft Windows NT4 / 2000 / XP drivers**

- **DP Configuration software with enhanced diagnostics**

- **OPC Server V3.0**

- **Open, documented memory map interface with example C source code and Windows 32-bit DLLs for custom driver development**
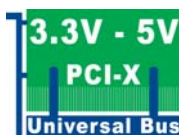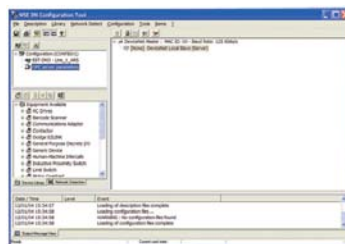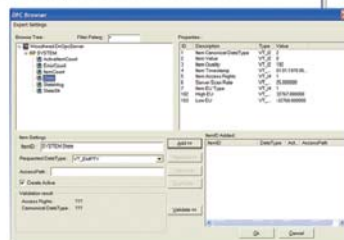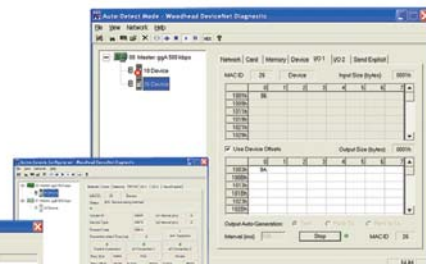
Related Products

Brad Harrison® Diagnostic D-Sub Connector

PROFI
PROCESS FIELD BUS
BUS

Woodhead

Network Specifications

Protocol	• Profibus Master DP-V0, Class 1 and Class 2 • Profibus Slave DP-V0 • PROFIBUS Master DP-V1, Class 1 and Class 2 • FDL Layer 2
Data Rate	• All Profibus data rates up to 12Mbps
Cable	• Belden 3079A • Brad Harrison® 85-0001 PVR2 conductor with shield, UL-listed
Connector	• DB9 female connector per port/channel • Brad Harrison Diagnostic D-Sub connector part number: MA9D01-42
Isolation	• 1000 V

Hardware Specifications

	PCI	ISA	PC/104
Bus Interface	Compliant with PCI 2.2; will operate in 2.3 and some 2.1-compliant systems	Compliant with EISA Specification Version 3.12	Compliant with PC/104 Specification Version 2.3
Processor	ColdFIRE 5272		
Memory	256K Window	Min. 8K Window in host memory map (max. 256K and default 16K)	Min. 8K Window in host memory map (max. 256K and default 16K)
Diagnostics	LEDs for system status and communications status		
Interrupts	Hardware Plug & Play (32 Kbytes used per card)	Software selectable level IRQ 0 through 7	
Dimensions (Length x Width)	6.875 in x 4.2 in (17.463 cm x 10.668 cm)	6.225 in x 4.2 in (15.812 cm x 10.668 cm)	9.588 cm x 9.017 cm (3.775 in x 3.550 in)
Typical Current Draw	600 mA		
Voltage Requirements	5V or 3.3V	5V	
Resources	PCI Region 0 = 128 bytes PCI memory PCI Region 2 = 256K of 32-bit PCI memory PCI Region 3 = 32 bytes of 32-bit PCI memory One PCI interrupt	ISA Memory Region = 256K of 16-bit ISA memory ISA I/O Region = 8 bytes of ISA I/O memory One ISA interrupt	PC/104 Memory Region = 256K of 16-bit PC/104 memory PC/104 I/O Region = 8 bytes of PC/104 I/O memory One PC/104 interrupt
Operating Temperature	0ºC (32ºF) up to +60ºC (140ºF)		
Storage Temperature	-40ºC (-40F) up to +85ºC (185F)		
Humidity	5% to 95% non-condensing		

Ordering Information

Part Number	Product Description	Other Related Products
SST-PB3-PCU	Profibus card, Universal PCI bus (3.3V / 5V)	IP67 and IP20 Profibus I/O Devices Gateway Solutions Cable Assemblies Diagnostic Tools Network Interfaces
SST-PB3-104	Profibus card, PC/104	
SST-PB3-ISA	Profibus card, ISA	
SST-PB3-CNF-P SST-PB3-CNF-U SST-PB3-OPC	Configuration Console Application, parallel key Configuration Console Application, USB key OPC Server	
SST-PB3-104-25	Bulk of 25 of the SST-PB3-104	
SST-PB3-PCU-25	Bulk of 25 of the SST-PB3-PCU	

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Empowering the Industrial Infrastructure

Network Interface