



BradCommunications™ SST™ DeviceNet™ Interfaces provide high-performance control and the support required for your DeviceNet applications.

SST™ Interfaces for DeviceNet

For Controlling and Monitoring DeviceNet Applications

Features

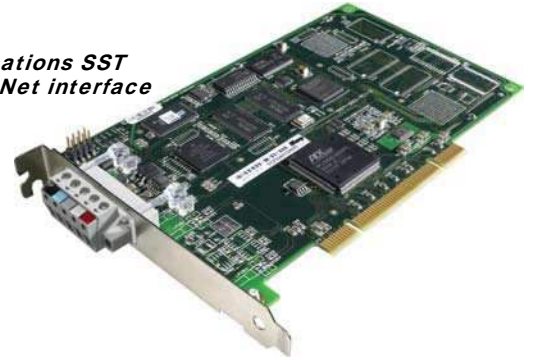
- High performance - DeviceNet protocol executed on the card
- Diagnostic LEDs
- UCMM (Unconnected Message Manager) capable; Group 1, 2, and 3 dynamic explicit connections supported
- Provides simultaneous execution of Group 2 Client (Master) and Server (Slave) operation
- Supports all DeviceNet standard baud rates: 125, 250, and 500 Kbaud
- Supports Poll, Strobe, Change of State (COS) and Cyclic I/O messaging
- Supports fragmented Explicit and I/O messages
- Provides Client (Master) explicit messaging to slave devices

OS and Drivers Supported

- Windows 2000 / XP drivers
- The Console; a grouping of software tools including OPC server configuration and diagnostic tools
- Open, documented memory map interface with example C source code and Windows 32-bit DLLs for custom driver development



BradCommunications SST
PCI bus DeviceNet interface



Overview

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

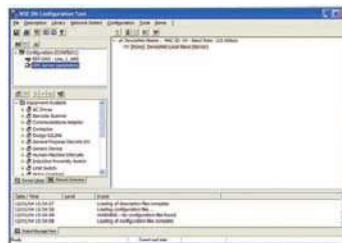
BradCommunications SST network interface cards for DeviceNet can be found in many applications including:

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

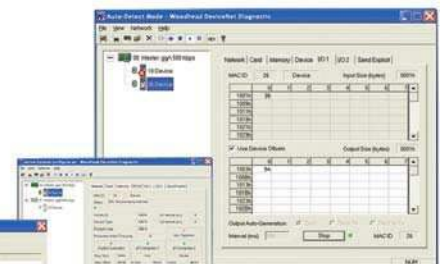
BradCommunications SST network interface cards for DeviceNet undergo DeviceNet conformance testing and support DeviceNet specifications; including all DeviceNet standard baud rates, Poll, Strobe, Change of State (COS) and Cyclic I/O messaging.

Software Tools

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



Configuration Console



Diagnostic and Test Tools



OPC Browser



Hardware Specifications

	PCI	PC/104
Bus Interface	32-bit, 33 MHz, PCI universal 3.3/5V interface (compliant signaling with PCI v2.2)	16-bit PC/104 interface (compliant with PC/104, spec 2.3)
Processor	66 MHz ColdFire, per channel	
Memory	128 bytes for PCI configuration	256 KB of shared RAM per channel
Diagnostics	Bi-color LEDs showing card status PCI: health, communication PC/104: power, health, communication	
Interrupts	Hardware Plug & Play (32 Kbytes used per card)	Software selectable level IRQ 2/9,5,7,10,11,12,15; standard TTL drive
Dimensions (LxW)	Standard half-length	
Consumption	5.2 W	5.0 W
Typical Current Draw	+5V, ± 5 % 1.03 A (2 channel)	+5V, ± 5 %, 1000 mA 2 channel
Voltage Requirements	5 V	
Addressing: Memory	A 256 Kbytes window available per channel	256K in a window of 8K, 16K, 32K, 64K, 128K or 256K bytes on even window boundary between 512K and 1Mb
Addressing: I/O	8 bytes allocated per channel	8 bytes on any even 8-bit boundary from 200h-2F8h or 600h-6F8h
Operating Temperature	0° C (32° F) up to +55° C (131° F)	
Storage Temperature	-40° C (-40° F) up to +85° C (185° F)	
Humidity	5% to 95% non-condensing	
Network Specifications:		
Protocol	DeviceNet™ Master – Group 2 Client, Group 2 only Client DeviceNet Slave – Group 2 Server CAN 2.0 B Isolated CAN physical layer on each channel	
Cable	Shielded twisted pair, compatible with target network	
Connector	DeviceNet compliant 5-pin CAN connector	
External Power	11-24 VDC, 50 mA typical	
Isolation	500 V	
Data Rate	Up to 1 Mbaud for CAN 125K, 250K and 500K baud for DeviceNet	
RoHS Compliant	Yes	Yes

Ordering Information

SAP Material Number	Catalog Number	Product Description
1120030013	SST-DN3-PCU-1	DeviceNet card, Universal PCI bus (3.3V / 5V), 1 channel
1120030018	SST-DN3-PCU-2	DeviceNet card, Universal PCI bus (3.3V / 5V), 2 channels
1120050016	SST-DN3-104-1	DeviceNet card, PC/104, 1 channel
1120050024	SST-DN3-104-2	DeviceNet card, PC/104, 2 channels
Not required	SST-DN3-DIA†	DeviceNet diagnostic tool
1120300007	SST-DN3-CNF-U	DeviceNet software console with USB key (includes network analyzer)
1120300006	SST-DN3-CNF-P	DeviceNet software console with parallel port key (includes network analyzer)
1120270014	SST-DN3-OPC	OPC Data Server software (must purchase at least one SST- DN3-CNF)

† Included with SST-DN3 interface cards

To contact us: www.woodhead.com

Reference Number: DW2006148 Date Published: December 2008

North America: US: + 1 800 225 7724 – Canada: +1 519 725 5136

Europe: France: +33 2 32 96 04 20 – Germany: +49 7252 94 96 0 – Italy: +39 010 59 30 77 –
United Kingdom: +44 1495 356300

Asia: Shanghai, China: +86 21-5835-9885 - Tianjin, China: +86 22-23321717
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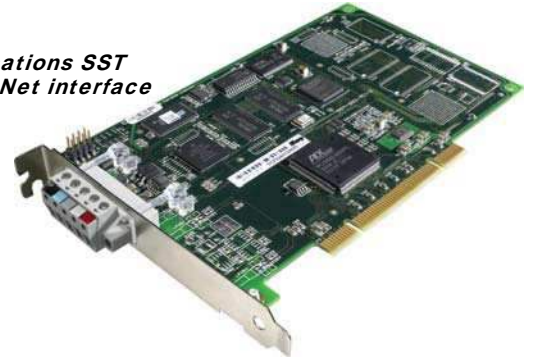
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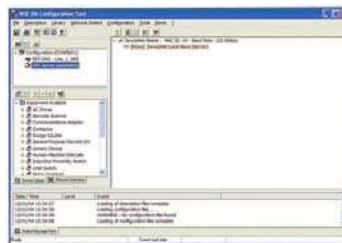
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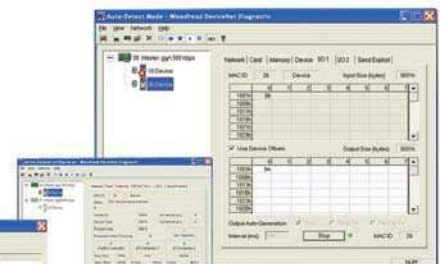
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