



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

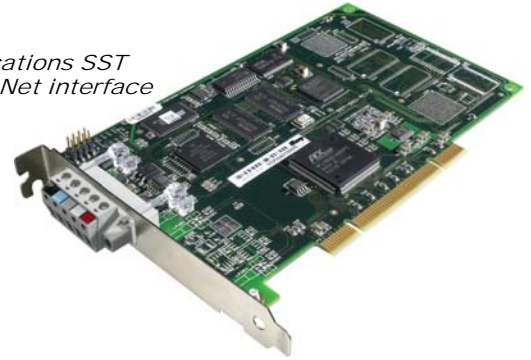
- High performance - DeviceNet protocol executed on the card
- Diagnostic LEDs
- UCMM (Unconnected Message Manager) capable; Group 1, 2, and 3 dynamic explicit connections supported
- Provides simultaneous execution of Group 2 Client (Master) and Server (Slave) operation
- Supports all DeviceNet standard 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.

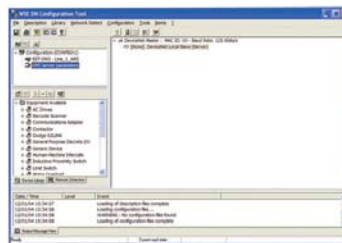
BradCommunications SST network interface cards for DeviceNet can be found in many applications including:

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

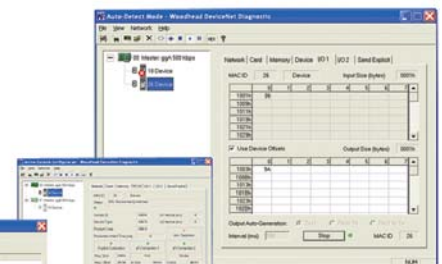
BradCommunications SST network interface cards for DeviceNet undergo DeviceNet conformance testing and support DeviceNet specifications; including all DeviceNet standard baud rates, Poll, Strobe, Change of State (COS) and Cyclic I/O messaging.

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

## Ordering Information

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

<sup>†</sup> Included with SST-DN3 interface cards

To contact us: [www.woodhead.com](http://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

Singapore: +65 6268-6868 – Yamato, Japan: +81 46-265-2428 – Nagoya, Japan: +81 52-221-5950