

# 3<sup>rd</sup> Generation SST Interfaces

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**

- Microsoft Windows NT4 / 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







## 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.

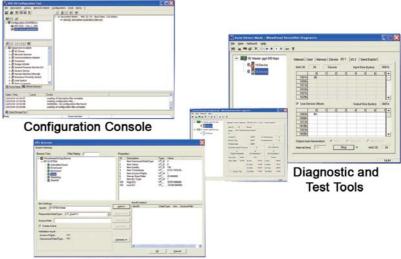
BradCommunications SST network interface cards for DeviceNet can be found in many applications including:

- 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.



**OPC Browser** 

# SST<sup>™</sup> DeviceNet Interfaces

# **Hardware Specifications**

	PCI	PC/104	VME	
	32-bit, 33 MHz, PCI universal	16-bit PC/104 interface	16-bit data, 24-bit address	
Bus Interface	3.3/5V interface	(compliant with	(compliant with VME64	
	(compliant signaling with PCI v2.2)	PC/104, spec 2.3)	(VITA 1.1 1997))	
Processor		66 MHz ColdFire, per channel		
Memory	128 bytes for PCI configuration		256 KB of shared RAM per channel	
	Bi-color LEDs showing card status			
Diagnostics	PCI: health, communication PC/104, VME: power, health, communication			
	Software selectable level			
Interrupts	Hardware Plug & Play	IRQ 2/9,5,7,10,11,12,15;	DIP switch selectable level IRQ 1-7	
	(32 Kbytes used per card)	standard TTL drive		
Dimensions (LxW)	Standard half-length	9.588 cm x 9.017 cm	23.335 cm x 15.9995 cm	
	Otandara nan longin	(3.775 in x 3.550 in)	(9.187 in x 6.299 in)	
Consumption	5.2 W	5.0 W	2.5W per channel 1=2.5 W, 2=5 W, 4=10 W	
Typical Current Draw	+5V, ± 5 % 1.03 A (2 channel)	+5V, ± 5 %, 1000 mA 2 channel	500 mA per channel,	
			1=500 mA, 2=1 A, 4=2 A	
Voltage Requirements	5 V			
Addressing: Memory	A 256 Kbytes window available per channel	256K in a window of 8K, 16K, 32K,	256K in a window of 8K, 16K, 32K,	
		64K, 128K or 256K bytes	64K, 128K or 256K bytes	
		on even window boundary between 512K and 1Mb	on even window boundary between 0 and 16Mb	
	8 bytes allocated	8 bytes on any even 8-bit boundary	16 bytes on any odd 16-bit	
Addressing: I/O	per channel	from 200h-2F8h or 600h-6F8h	boundary from 0 to 0xfc00	
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			
-	Networ	k Specifications		
		et <sup>™</sup> Master – Group 2 Client, Group 2 o	nly Client	
Protocol	DeviceNet Slave – Group 2 Server			
11010001	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			
RoHS Compliant	125K, 250K and 500K baud for DeviceNet Yes Coming soon Coming soon			
Kono Compliant	165	Coming soon	Coming soon	

# **Ordering Information**

from Woodhead Industries

Part Number	Product Description	Other Related Products
SST-DN3-PCU-1	DeviceNet card, Universal PCI bus (3.3V / 5V), 1 channel	
SST-DN3-PCU-2	DeviceNet card, Universal PCI bus (3.3V / 5V), 2 channels	IP67 and IP20
SST-DN3-104-1	DeviceNet card, PC/104, 1 channel	DeviceNet Switches
SST-DN3-104-2	DeviceNet card, PC/104, 2 channels	Gateway Solutions
SST-DN3-VME-1	DeviceNet card, VME, 1 channel	Cable Assemblies
SST-DN3-VME-2	DeviceNet card, VME, 2 channels	Diagnostic Tools
SST-DN3-VME-4	DeviceNet card, VME, 4 channels	Network Interfaces
SST-DN3-DIA <sup>†</sup>	DeviceNet diagnostic tool	
SST-DN3-CNF-U	DeviceNet software console with USB key (includes network analyzer)	
SST-DN3-CNF-P	DeviceNet software console with parallel port key (includes network analyzer)	
SST-DN3-OPC	OPC Data Server software (must purchase at least one SST- DN3-CNF)	

To contact us: www.woodhead.com

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

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