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# *DeviceNet PC/104 Interface Card*

## *Part Number: 5136-DN-104*

PDF File of DeviceNet PC/104 Data Sheet (English)

PDF File of DeviceNet PC/104 Data Sheet (Japanese) - Requires Japanese Acrobat Viewer

Software and Documentation Updates

Third Party Products

Literature Request
(includes Application Stories and Technical Notes)

Return to Interface Cards for DeviceNet

SST is an active member of the ODVA (Open DeviceNet Vendor Association)

SST DeviceNet PC/104 interface card is DeviceNet Conformance Tested.

The SST DeviceNet card connects your PC/104 bus computer to DeviceNet.



This computer bus format is also available in the pro format - 5136-DNP-104.

**Applications**

Many third party software programs support the SST DeviceNet interface card for various applications including:

- Operator Interface / HMI
- PC Control
- Network Configuration, Troubleshooting and Diagnostics
- I/O Emulation
- Device Development

**Features**

- Entire DeviceNet Protocol is executed in hardware
- UCMM capable, Group 1, 2, and 3 dynamic explicit connections supported
- Simultaneous execution of Group 2




SST DeviceNet PC/104 Interface Card comes with a 10-year warranty**

## *Available for the SST DeviceNet PC/104 Card:*

- DeviceNet Network Analyzer and Monitor Diagnostic Software Tools
- DeviceNet Node Commissioning Tool
- OPC Server
- Common Driver Architecture (CDA)
- Custom driver development software
- Microsoft Windows 95/98/NT drivers / DLLs
- 10-year warranty**
- Global technical support (24 hours/7 days)

*** contact SST for complete details*

Client (master) and Server (slave) operation
- All DeviceNet standard baud rates supported: 125, 250 and 500 Kbaud
- Full DeviceNet implementation including Change of State (COS) and explicit messaging
- DeviceNet compliance is ensured at the card level for I/O scanner and device applications
- SST DeviceNet Interface Cards are DeviceNet Conformance Tested

**Custom Driver Development**

SST offers two options for supporting the DeviceNet interface card: SST Common Driver Architecture (CDA) or Memory Mapped Access. The SST CDA significantly reduces software driver development time without compromising any of SST's hardware specific features. The CDA supports SST's ControlNet, DeviceNet, Modicon and Profibus interface cards. Memory Mapped Access is also available. SST provides an open documented memory map interface with example C source code and Windows 32-bit drivers.

**Hardware Specifications**

- Compatible with PC/104 bus
- 16 MHz V40 microprocessor with 128 Kbytes RAM
- 16 Kbytes host interface memory
- Software configurable base address
- Software configurable interrupts, 2, 5, and 7 supported
- DeviceNet compatible 5-pin DeviceNet connector
- DeviceNet compatible network status bicolor indicator
- Supports connection to non-powered (3 wire) CAN networks with external 12-24 VDC supply
- Compatible with CAN specification 2.0 part A
- Supports CAN data rates up to 1 Mbaud
- Supports all standard DeviceNet data rates: 125, 250 and 500 Kbaud
- Multiple cards can be configured in the same computer

- 500 V optically isolated CAN interface
- DeviceNet conformance tested
- Operational temperature: 0 to 50C (32 to 122°F)
- Storage temperature: -25 to 70C (-13 to 158°F)
- Power requirements: +5 V +/- 5% 200 mA (typical)

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