

SST-DN4-104-2

SST DN4 Two-Channel DeviceNet PC/104 Interface Card

Product identification

Molex Woodhead SST-DN4-104-2 is a two-channel PC/104 DeviceNet network interface card with isolated CAN channels, 256 KB shared RAM per channel and order number 112005-0048.

Parameter	Verified value
Manufacturer	Molex Woodhead
Model	SST-DN4-104-2
Product Family	SST DN4 DeviceNet Network Interface Cards
Product Type	DeviceNet PC/104 Interface Card

Technical specifications

Parameter	Verified value
Order Number	112005-0048
Channels	2
Multi-server version	No
Host bus	16-bit PC/104
PC/104 compliance	Versions 2.3 and 2.4
Shared RAM	256 KB per channel
Memory window	8, 16, 32, 64, 128 or 256 KB
Memory address range	512 KB to 1 MB on an even window boundary
I/O allocation	8 bytes
I/O address range	200h-2F8h or 600h-6F8h on an even 8-bit boundary
Typical current draw	+5 V +/-5%, 600 mA for two channels
Dimensions	95.90 x 90.20 mm
Operating temperature	0 to +55 C
Protocol	DeviceNet master/slave, CAN 2.0B
DeviceNet rates	125, 250 and 500 kbaud
CAN rate	Up to 1 Mbaud
External network power	11 to 24 VDC, 50 mA typical
Isolation	500 V
Connector	DeviceNet-compliant five-pin CAN
Cable	Shielded twisted pair

Product overview

SST-DN4-104-2 is the two-channel PC/104 card in the Molex Woodhead SST DN4 DeviceNet interface family. Its 16-bit PC/104 host connection follows versions 2.3 and 2.4 and presents separate network resources for two DeviceNet channels.

Each channel provides 256 KB of shared RAM, isolated CAN signaling and a five-pin DeviceNet connector. The interface supports master Group 2 client and slave Group 2 server operation at standard DeviceNet network rates.

The compact board serves embedded control, real-time data acquisition and machine-network diagnostic applications where a stackable PC/104 form factor is required. Memory windows, I/O addresses, interrupt selection, network power and firmware must be coordinated with the host.

Applications

- Embeds dual DeviceNet connectivity in PC/104 machine-control computers.
- Supports real-time I/O acquisition for robotics, material handling and semiconductor equipment.
- Provides a compact platform for DeviceNet device development and network diagnostics.

DeviceNet Networking

- The card supports master Group 2 client and slave Group 2 server operation.
- DeviceNet rates of 125, 250 and 500 kbaud are selected to match the installed network.
- Each isolated CAN channel uses shielded twisted pair and a five-pin network connector.

Host Interface

- The 16-bit PC/104 bus follows PC/104 versions 2.3 and 2.4.
- Each channel exposes shared memory through a selectable window below the one-megabyte boundary.
- Eight I/O bytes are placed on an allowed even boundary in the published address ranges.

Performance & Efficiency

- Two channels draw 600 mA typical from the regulated five-volt host supply.
- Separate shared-memory resources let the host exchange process data without serial polling of each device.
- The compact 95.90 by 90.20 mm board adds networking without a full-size PCI slot.

High-risk technical note

SST-DN4-104-2 requires conflict-free PC/104 memory and I/O window settings; verify both channel maps before energizing the host stack.

Request a quotation
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Exact model
SST-DN4-104-2
SST DN4 DeviceNet Network Interface Cards



Manufacturer source

<https://www.content.molex.com/dxdata/literature/987650-5071.pdf>

Source technical meaning is unchanged. This web edition is organized for exact-model identification and quotation support.