

SST-DN3-PCU-2-E SST-DN3-PCI-2

SST DN3 Dual-Channel DeviceNet Universal PCI Interface Card

Product identification

Molex Woodhead SST-DN3-PCU-2-E SST-DN3-PCI-2 is a dual-channel DeviceNet interface card for universal 3.3/5 V PCI hosts, with two independently controlled network channels.

Parameter	Verified value
Manufacturer	Molex Woodhead
Model	SST-DN3-PCU-2-E SST-DN3-PCI-2
Product Family	SST DN3 DeviceNet Network Interface Cards
Product Type	DeviceNet Interface Card

Technical specifications

Parameter	Verified value
Catalog identity	SST-DN3-PCU-2-E / SST-DN3-PCI-2
Host interface	Universal PCI, 3.3 V / 5 V
Channels	2 independent DeviceNet interfaces
Channel processors	Independent CPU per channel
Application behavior	Downloadable firmware modules
DeviceNet role	Master Group 2 client and slave Group 2 server
CAN compliance	CAN 2.0B
Network physical layer	Isolated CAN per channel
DeviceNet rates	125, 250 and 500 kbaud
CAN maximum rate	Up to 1 Mbaud
Network connector	5-pin DeviceNet/CAN connector per channel
Network cable	Shielded twisted pair
External network power	11 to 24 VDC, 50 mA typical per channel
Network isolation	500 V
Memory window	256 KB available per channel
I/O allocation	8 bytes per channel
Operating temperature	0 to +55 C
Storage temperature	-40 to +85 C
Humidity	5 to 95% non-condensing
SAP material reference	1120030018 for SST-DN3-PCU-2

Product overview

SST-DN3-PCU-2-E SST-DN3-PCI-2 is the combined identification used for the Molex Woodhead dual-channel SST DN3 DeviceNet interface card. The universal PCI assembly supports 3.3 V and 5 V host signaling while exposing two independent DeviceNet network interfaces.

Each channel has its own processing and downloadable application firmware path, so one channel does not share processor or memory resources with the other. The card supports DeviceNet master and slave operation, CAN 2.0B signaling and standard DeviceNet network rates.

This interface is intended for industrial PCs, machine controllers and diagnostic stations that exchange deterministic I/O with DeviceNet devices. Host PCI compatibility, driver package, firmware revision, channel configuration and network power must be confirmed before replacement.

Applications

- Adds two DeviceNet scanner or adapter channels to a compatible industrial PC.
- Separates two machine networks so traffic and firmware execution remain independent by channel.
- Supports engineering stations that configure, diagnose or exchange I/O with DeviceNet devices.

Communication & Connectivity

- Each channel connects through its own five-pin DeviceNet/CAN network terminal.
- DeviceNet communication supports 125, 250 and 500 kbaud network rates.
- The isolated CAN physical layer uses shielded twisted-pair network cable and external bus power.

Configuration & Programming

- Downloadable firmware modules define the application behavior executed by each channel CPU.
- The host maps a separate memory window and I/O register region for each interface.
- Driver, firmware and application versions must be retained together when migrating the card.

Diagnostics & Protection

- Health and communication indicators provide channel-level status during startup and operation.
- Fatal self-test flash codes and register diagnostics identify hardware or firmware initialization faults.
- Electrostatic-discharge precautions are required when handling the exposed PCI assembly.

High-risk technical note

SST-DN3-PCU-2-E SST-DN3-PCI-2 uses two independently controlled channels; back up both firmware configurations before moving the card to another PCI host.

Request a quotation
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Exact model
SST-DN3-PCU-2-E SST-DN3-PCI-2
SST DN3 DeviceNet Network Interface Cards



Manufacturer source

https://www.artisanag.com/info/Molex_SST_DN3_PCI_Manual.pdf

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