

Molex Woodhead SST-DN4-104-2

Two-channel SST DeviceNet PC/104 network interface card

Product function

Molex Woodhead SST-DN4-104-2 is a two-channel SST DeviceNet PC/104 network interface card for real-time control and data-acquisition applications. The official ordering table identifies order number 112005-0048 and a two-channel, non-multi-server PC/104 configuration.

01 / Function

Connects a PC/104 host to two independent DeviceNet channels

02 / Function

Provides 256 KB shared RAM for each channel

03 / Function

Uses a 16-bit PC/104 host interface

04 / Function

Includes the SST DeviceNet Diagnostic Tool software

PARAMETER	SPECIFICATION
Country of origin	USA
HS / tariff code	8537101190
Shipping origin	Xiamen, Fujian, China
Stock / delivery	1 / 3 days; fast shipment

System integration

Use Molex Woodhead SST-DN4-104-2 only in a host that supports the documented PC/104 interface, I/O-address window and 5 V supply. Preserve the configured channel identities, DeviceNet addressing and application data before replacement.

Important Notice: Confirm catalog number SST-DN4-104-2 and order number 112005-0048 before installation. Isolate host and network power, record both channel configurations, and validate each DeviceNet segment independently after commissioning.

Technical specifications

Molex Woodhead SST-DN4-104-2 / identity, host interface and addressing

PARAMETER	SPECIFICATION
Exact catalog number	SST-DN4-104-2
Molex order number	112005-0048
Product family	SST DN4 DeviceNet network interface cards
Host interface	16-bit PC/104
DeviceNet channels	2
Multi-server version	No
Shared memory	256 KB per channel
I/O addressing	8 bytes on an even 8-bit boundary
I/O address ranges	200h-2F8h or 600h-6F8h
Memory addressing	256 KB through an 8, 16, 32, 64, 128 or 256 KB window
Memory window region	Even window boundary between 512 KB and 1 MB

Engineering note

The official Molex SST DN4 literature identifies SST-DN4-104-2 as a two-channel PC/104 DeviceNet network interface card. The PC/104 family uses a 16-bit interface, 256 KB shared memory per channel and documented I/O addressing; the two-channel card has a typical +5 V current draw of 600 mA.

Technical source: Molex SST DN4 DeviceNet Network Interface Cards literature 987650-6301. Commercial fields supplied by Apter Power.

Technical specifications

Molex Woodhead SST-DN4-104-2 / power, diagnostics and environment

PARAMETER	SPECIFICATION
Supply	+5 V DC, +/-5%
Typical current draw	600 mA for the two-channel card
Diagnostics	Bi-color LEDs for power, status and communication
Operating temperature	0 to +55 deg C
Storage temperature	-40 to +85 deg C
Relative humidity	5 to 95%, non-condensing
RoHS compliance	Yes
Included software	SST DeviceNet Diagnostic Tool
Network technology	DeviceNet
Application class	Real-time control and data acquisition

Engineering note

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Application and precautions

Molex Woodhead SST-DN4-104-2

Dual DeviceNet host interface

Connect a PC/104 controller to two separately configured DeviceNet networks.

Real-time machine control

Exchange deterministic process data between the embedded host and networked DeviceNet nodes.

Data acquisition

Collect DeviceNet process and diagnostic data through the shared-memory host interface.

Installed-card replacement

Restore the same SST-DN4-104-2 order identity while preserving host addressing and both channel configurations.

Eight installation and commissioning checks

01 / Verification

Verify both SST-DN4-104-2 and Molex order number 112005-0048 before work.

02 / Verification

Isolate PC/104 host power and both DeviceNet network supplies before removing the card.

03 / Verification

Record the configured I/O base address, memory window and interrupt resources before replacement.

04 / Verification

Confirm the +5 V DC supply is within +/-5% and can support the documented 600 mA typical draw.

05 / Verification

Preserve the channel-one and channel-two DeviceNet identities, baud rates and node configurations separately.

06 / Verification

Protect the card and PC/104 stack from electrostatic discharge and mechanical misalignment.

07 / Verification

Keep operation within 0 to +55 deg C and 5 to 95% non-condensing humidity.

08 / Verification

After energization, verify power, status and communication LEDs and test both DeviceNet channels independently.

Engineering FAQ

Molex Woodhead SST-DN4-104-2 / exact-model questions

01 What is the exact Molex order number for Molex Woodhead SST-DN4-104-2?

The official ordering table lists Molex order number 112005-0048 for catalog number SST-DN4-104-2.

02 How many DeviceNet channels does Molex Woodhead SST-DN4-104-2 provide?

SST-DN4-104-2 is the two-channel PC/104 card. The ordering table marks two channels and identifies it as a non-multi-server version.

03 Which host interface is used by Molex Woodhead SST-DN4-104-2?

The DN4 PC/104 card uses a 16-bit PC/104 host interface.

04 How much shared memory is available on Molex Woodhead SST-DN4-104-2?

The official specification lists 256 KB of shared RAM for each DeviceNet channel.

05 What supply is required by Molex Woodhead SST-DN4-104-2?

The PC/104 interface card uses +5 V DC within +/-5%. The two-channel version has a documented typical current draw of 600 mA.

06 Which I/O address ranges apply to Molex Woodhead SST-DN4-104-2?

The PC/104 specification assigns 8 bytes on an even 8-bit boundary in the 200h-2F8h or 600h-6F8h ranges.

07 What environmental limits apply to Molex Woodhead SST-DN4-104-2?

The published limits are 0 to +55 deg C operating temperature, -40 to +85 deg C storage temperature and 5 to 95% relative humidity without condensation.

08 What diagnostic software is supplied with Molex Woodhead SST-DN4-104-2?

The official literature states that the SST DeviceNet Diagnostic Tool software is included with every card.

Catalogue and contact

Verified product-page navigation / not a compatibility or substitution list

BRAND + MODEL	RELATION	PRODUCT LINK
ABB TU833 3BSE038726R1	ABB automation catalogue	View ABB TU833 3BSE038726R1 page
ABB TU810V1 3BSE013230R1	ABB automation catalogue	View ABB TU810V1 3BSE013230R1 page
ABB TU830V1 3BSE013234R1	ABB automation catalogue	View ABB TU830V1 3BSE013234R1 page
ABB AO895 3BSC690087R1	ABB automation catalogue	View ABB AO895 3BSC690087R1 page
ABB AO810 3BSE008522R1	ABB automation catalogue	View ABB AO810 3BSE008522R1 page
ABB AO810V2 3BSE038415R1	ABB automation catalogue	View ABB AO810V2 3BSE038415R1 page
ABB AO801 3BSE020514R1	ABB automation catalogue	View ABB AO801 3BSE020514R1 page
ABB TU835V1 3BSE013236R1	ABB automation catalogue	View ABB TU835V1 3BSE013236R1 page

These catalogue links do not establish electrical, mechanical or system compatibility with Molex Woodhead SST-DN4-104-2.

APTER POWER CONTACT

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