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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SST™ DN4 DeviceNet* Network Interface Cards

molex

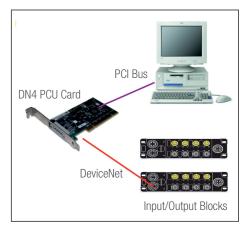
Delivering high reliability and performance with CIP Safety integration, combined client/server SST™ DN4 DeviceNet* PCIe NICs enable real-time control in data-acquisition applications

Features and Benefits

Scans DeviceNet* signals in 3 to 5 milliseconds	Enables real-time control
Combined Group 2 Client (Master) and Server (Slave) operations in one Network Interface Card (NIC)	Provides simultaneous execution of master and slave operations. Allows implementation of control schemes where multiple functions may be required (ie robotic control cells)
Common Industrial Protocol (CIP*) Safety Server (Slave) integration	Reduces the effort and time required to implement Molex CIP Safety Software Stacks. Enables compatibility for future applications and safety requirements
Field-Programmable Gate Array (FPGA) design	Boosts performance and reliability. Lowers component counts. Results in an extended product lifecycle
Poll, strobe, change-of-state (COS) and cyclic input/output messaging	Broadens application flexibility for DeviceNet control schemes
Quick-connect capability in Client (Master) mode	Accesses devices in less than 500 milliseconds on activation
Supports multiple networks and PC card buses: Controller Area Network (CAN) (2A and 2B, up to 1Mbps per second); DeviceNet networks (at 125, 250 or 500 kBps); (PCIe, PCI, PC/104) and channels (1, 2 channel)	Expands application and system flexibility. Ensures reduced inventory for OEMs and distributors
Multi-server (slave) versions of the PCI bus card are available (1 channel only)	Supports control system simulation. Reduces design and field commission time
Form-fit-function replacement for existing DN3 cards	Provides backwards compatibility with DN3 cards for legacy system connections
Tested to ODVA standards (Volume 3, v.1.8)	Meets industry standard requirements



DN4 DeviceNet PCle Card Series 112113



PC Control Example



Semiconductor Wafer Assembly

Applications

Industrial Automation: Automotive Applications

PC Control Systems
HMI/SCADA Systems

Robot and Other Machine Control

Diagnostics

Industrial Automation: Semiconductor Applications

PC Control Systems
HMI/SCADA Systems

Diagnostics

Material Handling

PC Control Systems

HMI/SCADA Systems

Robot and Other Machine Control

Diagnostics

Other Markets

Pulp and Paper
Food and Beverage
Mining and Metal



Automotive Robot Controller

^{*}DeviceNet is a Trademark of Open DeviceNet Vendor Association, Inc.

SST™ DN4 DeviceNet* Network Interface Cards



Specifications

General

	PCIe (PCI Express) NIC	PCU (Universal PCI) NIC	PC/104 NIC	
Bus Interface	PCI Express x1 (Times 1)	32-bit, 33 MHz, PCI universal 3.3/5V interface (compliant signaling with PCI v2.2 & v2.3)	16-bit PC/104 interface (compliant with PC/104, v2.3 & v2.4)	
Processor	64 MHz NIOS Processor			
Memory	128 bytes for PCI configuration	128 bytes for PCI configuration	256 KB of shared RAM per channel	
Diagnostics	Bi-color LEDs showing card status PCI: health, communication PC/104 only: power, health, communication			
Dimensions	119.00 by 68.00 by 18.00mm (LxWxH)	Standard half-height (1 channel) Standard full-height (2 channel)	95.90 by 90.20mm (LxW)	
Typical Current Draw	+3.3V, ± 12 % 0.3 A (1 channel)	+5V, ± 5 % 0.3 A (1 channel) 600 mA (2 channel)	+5V, ± 5 % 0.3 A (1 channel) 600 mA (2 channel)	
Addressing: Memory	256 kB window available per channel	256 kB window available per channel	256kB in a window of 8, 16, 32, 64, 128 or 256kB on even window boundary between 512kB and 1MB	
Addressing: I/O	16 bytes allocated per channel	16 bytes allocated per channel	8 bytes on any even 8-bit boundary from 200h-2F8h or 600h-6F8h	
Operating Temperature	0 to +60°C	0 to +60°C	0 to +55°C	
Storage Temperature	-40 to +85°C			
Humidity	5 to 95% non-condensing			
RoHS Compliant	Yes			
Protocol	DeviceNet™ Master – Group 2 Client, Group 2 only Client DeviceNet Slave – Group 2 Server Compliant with DeviceNet Specification 1.8 CAN 2.0 B Isolated Controller Area Network (CAN) physical layer on each channel (where applicable)			
Cable	Shielded twisted pair, compatible with target network			
Connector	DeviceNet compliant 5-pin CAN connector			
External Power	11-24V DC, 50 mA typical			
Isolation	500V			
Data Rate	Up to 1 Mbaud for CAN 125K, 250K and 500K baud for DeviceNet			

Ordering Information

DeviceNet Network Interface Cards

Order No.	Catalog No.	Component	Channel	Multi-Server (Slave) Version	Bracket Height
<u>112005-0040</u>	SST-DN4-104-1	PC/104 Card	1		N/A
<u>112005-0048</u>	SST-DN4-104-2	PG/104 Galu	2		IVA
<u>112113-0001</u>	SST-DN4-PCU-H		1	No	Half
<u>112113-0005</u>	SST-DN4-PCU-2		2		
<u>112113-0007</u>	SST-DN4-PCU	PCU Card		Full	
<u>112113-0009</u>	SST-DN4MS-PCU		1	Yes	
<u>112113-0010</u>	SST-DN4MS-PCU-H			res	Half
<u>112113-0011</u>	SST-DN4-PCIE	PCle Card 1		No	Full
<u>112113-0012</u>	SST-DN4-PCIE-H		1	INO	Half
<u>112113-0013</u>	SST-DN4MS-PCIE			Yes	Full
<u>112113-0014</u>	2113-0014 SST-DN4MS-PCIE-H	ies	Half		

DeviceNet Network Interface Cards

Order No.	Catalog No.	Key
112030-0007	SST-DN3-CNF-U (single license	USB
<u>112027-0014</u>	SST-DN3-OPC (single license	N/A

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