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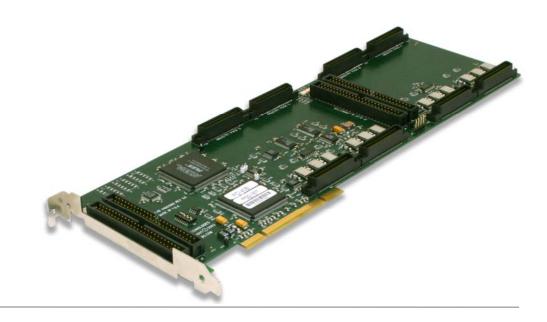


# PCI-40B

# 4-Slot IndustryPack® Carrier for PCI

# **Features**

- 4 IndustryPack slots on a full-length universal PCI slot board
- I/O via four 50-pin keyed, shrouded ribbon cable headers
- Switchable 8/32 MHz IndustryPack bus
- LEDs for CPU access and power monitor
- Filtered power rails and resettable fuses
- Interrupt acknowledge space for retrieving IndustryPack vectors
- Software-compatible with the PCI-40A
- Reduced memory-map version available



PCI-40B is an IndustryPack® carrier board that provides four IndustryPack slots on a single desktop or industrial PCI slot card. The IndustryPack bus clock is software selectable on a per-slot basis between 8 and 32 MHz.

The standard 8 MB memory space is available for each IndustryPack site. High-speed 32-bit PCI host address space permits desirable linear mapping and fixed address partitions of memory, I/O and ID spaces for each IndustryPack module.

The PCI-40B uses a PLX PCI9080 controller as the PCI bus interface chip and Altera FPGA logic, which provides fully configurable PCI interrupt vector space. The PCI bus interface supports both 3.3V and 5.0 V signaling.

Each IndustryPack site has an adjacent 50-pin flat ribbon connector for extending the host I/O signals. One connector is accessible via the rear-panel. The standard connector permits most of SBS Technologies transition modules and terminal blocks to be used.

The PCI-40B meets the PCI specification specification rev 2.1 and conforms to the VITA-4 IndustryPack Logic Interface Specification. This guarantees compatibility with a wide range of IndustryPacks.

The PCI-40B targets embedded computing applications in industrial automation, communications, transportation, and COTS.



# **Specifications**

#### Form Factor

 Universal PCI full-length slot

### PCI

PCI Specification, Rev. 2.1

# Carrier Board Memory Space

64 MB

## PCI Bus Interrupts Generated

INTA# only

### **Indicators**

- One green LED per IndustryPack slot for CPU access
- One red LED per IndustryPack rail for power monitor

### **Power Requirements**

- +5 VDC, 150 mA typical
- +12 VDC, 10 mA typical
- -12 VDC, 10 mA typical
- Extra power required for IndustryPack modules

## **Temperature**

- Operating: 0° to +70° C
- Storage: -40° to +85° C

# Humidity

 5% to 95% noncondensing

# PCI-40B

## **Number of IndustryPack Slots**

- Fou
- Supports up to two doublewide IndustryPacks

## **IndustryPack Bus Clock**

 Switchable 8/32 MHz per IndustryPack slot

# IndustryPack Features Supported

- I/O space
- ID space
- Memory space
- · Interrupt acknowledge cycles

# **IndustryPack Memory Size**

8 MB per IndustryPack

# IndustryPack Interrupts Supported

Int0 and Int1 for each slot

#### I/O Access

- One 50-pin 0.1" ribbon cable header per IndustryPack slot
- One connector is rear panel accessible

#### **Fuses**

- 1.5A for 5 VDC each slot
- 1.5A for ±12 VDC each slot

## **Dimensions**

• 106.7 mm x 309.9 mm

#### Weight

• 0.21 kg (0.5 lbs)

# **Ordering Information**

PCI-40B 4-slot PCI IndustryPack carrier with 8/32 IP bus

PCI-40B-R Reduced memory-map 4-slot PCI IndustryPack carrier with

8/32 IP bus

IP-TERM 50-pin screw terminal block with ribbon cable header

### **Corporate Headquarters**

2400 Louisiana Blvd. NE, #5-600 Albuquerque, NM 87110-4316 Tel 505.875.0600 Fax 505.875.0400 Email info@sbs.com

### **European Headquarters**

Memminger Str. 14 D-86159 Augsburg, Germany Tel +49-821-5034-0 Fax +49-821-5034-119 Email aug-info@sbs.com

For additional contact information, please visit our web site at www.sbs.com



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