

SBS PCI-40B

Four Slot IndustryPack Carrier



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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 re-settable 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.



PCI-40B

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% non-condensing

Number of IndustryPack Slots

- Four
- Supports up to two double-wide 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

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