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Find the *Abaco Systems / SBS PCI-40A* at our website: ***Click HERE***

PCI-40A

Four Slot IndustryPack® Carrier for PCI

I/O & COMMUNICATIONS

Features

- Four IndustryPack slots on a full-length 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
- Reduced memory-map version available by special order



PCI-40A 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-40A 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 5.0 V signaling.

Each IndustryPack site has an adjacent 50-pin I/O connector for exiting the host system through the PCI slot panel. 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-40A meets the PCI specification and conforms to the VITA-4 IndustryPack Logic Interface Specification. This guarantees compatibility with a wide range of IndustryPacks.

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

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PCI-40A



Specifications

Form Factor
- PCI full-length slot

PCI
- PCI Specification, Rev 2.1

PCI Controller
- PLX 9080

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 rail for power monitor

Power Requirements
- +5V VDC, 250 mA typical
- +12 V DC, 10 mA typical
- -12 V DC, 10mA typical
- Extra power required for IndustryPack modules

Temperature
- Operating: 0˚ to 70˚C
- Storage: -40˚ to +85˚C

Humidity
- 5% to 95% non-condensing

Weight
- 0.21 kg (0.5 lb)

Dimensions
- 4.2” x 12.2” (106.7 mm x 309.9 mm)

Specifications

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

Configurations

Model Number	Configuration
PCI-40A	4-slot PCI IndustryPack carrier with 8/32 MHz IndustryPack bus
Associated Products	
PCI-60A-8/32	6-slot PCI IndustryPack carrier with 8/32 MHz slots
C-IP50F-IP50F-3	Three foot 50 conductor ribbon cable
C-IP50F-IP50F-6	Six foot 50 conductor ribbon cable
IP-TERM	50-pin screw terminal block with ribbon cable header

*A reduced memory map version of the PCI-40A is available by special order. Contact SBS at (651) 905-4700 for details.

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