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Data Sheet

August 15, 2026

ABACO SYSTEMS / SBS

Abaco Systems / SBS PCI-40A Four Slot IndustryPack Carrier

The Abaco Systems PCI-40A is a four-slot IndustryPack carrier board that integrates multiple IndustryPack modules directly into PCI-based systems. Built around a PLX PCI9080 controller and Altera FPGA, this standard PCI form factor card expands industrial and desktop I/O capabilities while maintaining full compliance with ANSI/VITA 4-1995 specifications. Typical Applications Real-time data acquisition, embedded control systems, legacy IndustryPack module integration, industrial automation platforms, and distributed I/O expansion in PCI-based architectures. Compatibility & Integration Meets or exceeds ANSI/VITA 4-1995 specifications for 8 MHz and 32 MHz operation. Backward compatible with existing IndustryPack modules using Type I and Type II ID formats. Operates in standard PCI memory space with configurable address partitioning for memory, I/O, and ID resources across all four slots.



MODEL

**Abaco Systems /
SBS PCI-40A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

PCI-40A

LISTING

<https://aumictechlabs.com/products/pci-40a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

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while maintaining full compliance with ANSI/VITA 4-1995 specifications. Technical Specifications
Bus Interface & Control PLX PCI9080 PCI controller Altera FPGA logic PCI local bus compliance:
rev. 1.1 (March 28, 2005) PCI signaling: 5.0 V IndustryPack Architecture Four (4) IndustryPack
slots with 50-pin keyed connectors Per-slot clock selection: 8 MHz to 32 MHz (software-
configurable) 8 MB memory space per IndustryPack site Two interrupt requests per IP module
Interrupt vector space fully configurable ID space formats: Type I and Type II support Data
Transfer & Addressing 32-bit high-speed PCI host address space Slave mode: 32-bit, 16-bit, and
8-bit data transfers 32-bit read/write implemented as dual 16-bit transfers to IP modules I/O
space: 128 bytes per IP module (16-bit and 8-bit access) ID space: Type I (32 bytes consecutive
even addresses) and Type II (32 words via D16 transfers) Total memory allocation: 256 bytes for
PCI configuration + 64 MB for IP module address space Key Features Per-slot clock flexibility
enables mixed-speed module populations Linear memory mapping and fixed address partitioning
for each module Interrupt acknowledge cycles via IP INT space access Supports both 16-bit and
8-bit ID space access modes Typical Applications Real-time data acquisition, embedded control
systems, legacy IndustryPack module integration, industrial automation platforms, and distributed
I/O expansion in PCI-based architectures. Compatibility & Integration Meets or exceeds ANSI/VITA
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slots.

PCI40A Characteristics / Specifications

PARAMETER	VALUE
Model	PCI-40A
Instrument Type	PCI IndustryPack carrier
Manufacturer Line	Abaco Systems / SBS
Ip Sites	4
Host Bus	PCI
Chassis Form	PCI carrier board
Primary Use	Host four IndustryPack modules
Brand Lineage	SBS / Greenspring / Abaco
Related Carriers	PCI-60A class six-slot carriers
Module Ecosystem	IndustryPack digital/serial/analog modules
Power	PCI slot powered plus IP module budgets
Operating Temperature Spec Class	Follow PCI-40A sheet
Documentation Scope	OEM SBS PCI-40A documentation
Interrupt Routing Class	PCI interrupt routing for IP modules
Addressing Class	PCI configuration space + IP memory/IO windows
Front Panel	Carrier bracket; module I/O per IP
Installed Options	None typical beyond stuffed assembly
Warmup Spec Class	Not applicable beyond host PC ready
Safety Class	Observe PCI and module power budgets
Mechanical	PCI card retainer / bracket class
Dma Support Class	Per carrier/module capability
Compatibility	IndustryPack specification modules
Operating temperature	Spec Class: Follow PCI-40A sheet

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Spec Class: Follow PCI-40A sheet
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Compatibility	IndustryPack specification modules Notes From SBS/Abaco PCI-40A IndustryPack carrier documentation. Total IP module power must remain within PCI and carrier budgets.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.