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Data Sheet

August 15, 2026

ABACO SYSTEMS / SBS / BSI

Abaco Systems / SBS / BSI 4422-PCI Telemetry Module

Telemetry module for PCI bus systems. Designed for data acquisition and control applications.



MODEL

**Abaco Systems /
SBS / BSI 4422-
PCI**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

4422-PCI

LISTING

[https://aumictechlabs.c
om/products/4422-pci-
2/](https://aumictechlabs.com/products/4422-pci-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Abaco Systems BSI 4422-PCI is a PCI bus telemetry module that acquires, processes, and simulates PCM data streams up to 20 Mbps. The single full-size card integrates PCM decommutation, optional bit synchronization, IRIG time code reading, and dynamic PCM simulation capabilities. On-board DMA and dedicated memory enable high-speed data transfers across the PCI bus, while programmable setup parameters and pollable status readback simplify integration into data acquisition and control systems.

Technical Specifications

Data Acquisition Rate: Input data streams to 20 Mbps

PCM Decommutation: Processes streams to 20 Mbps; supports variable frame and word lengths (3–16 bits); implements SFID, FAC, and URC subframe methods

PCM Simulation: Full-fidelity simulation to 20 Mbps with dynamic and unique data word generation; autonomous operation capable

Bit Synchronizer (Optional): Accepts all PCM codes; includes tape driver output; available as daughter card

IRIG Time Code Reader: Accepts IRIG-A or

IRIG-B time codes; programmable fallback to system time; supports minor frame IRIG insertion
Data Transfer: On-board DMA engine with dedicated on-board memory for buffer addresses Bus
Interface: Single PCI bus module Connectors: DB9 (bit synchronizer), DB25
(decommutator/simulator/time functions), 50-pin parallel output header Operating Temperature:
0° to 50° C Non-Operating Temperature: -25° to +70° C Humidity: 0 to 90% (non-
condensing)Key Features Variable word length processing from 3 to 16 bits Autonomous PCM
generation with dynamic data patterns Fallback time source capability when IRIG is unavailable
DMA-based transfers minimize CPU overhead Status monitoring via pollable register on PCI
busTypical Applications PCM telemetry data acquisition and analysis Real-time PCM stream
decommutation Ground-based test and simulation systems Time-synchronized data collection
with IRIG referencesCompatibility & Integration Operable with T/MATE software, third-party
packages, or custom software implementations. Optional bit synchronizer daughter cards (Model
4400-TM or 4400-TF) and Unique Recycling Code option available.

4422PCI Characteristics / Specifications

PARAMETER	VALUE
Model	4422-PCI
Instrument Type	PCI telemetry module
Host Bus	PCI
Family	BSI / SBS 4422 telemetry
Form Factor	PCI card
Manufacturer	BSI / SBS / Abaco Systems
Use Case	telemetry PCM acquire or simulate
Control	host telemetry software
Operating Temperature Class	commercial PCI
Literature	Abaco SBS BSI 4422-PCI listings
Functions	telemetry module
Documentation Type	OEM telemetry catalog
Brand Lineage	BSI SBS Abaco
System Role	PCI telemetry I/O
Standard Class	PCM/IRIG telemetry class
Power	PCI slot
Revision	4422-PCI
Connectors	telemetry I/O per 4422 sheet
Clock Class	bit-rate clock per 4422 sheet
Software	ground-station decomm software class
Calibration Source	OEM published specifications
Export Class	commercial test equipment
Operating temperature	Class: commercial PCI

4422PCI Specifications

PARAMETER	VALUE
PCI telemetry module	BSI 4422 family
Technical Specifications	Model: 4422-PCI
Notes	From Abaco / SBS / BSI 4422-PCI telemetry-module catalog identity. Bit rate, format, and IRIG time options are on the 4422-PCI data sheet.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: commercial PCI
Operating Temperature	Class: commercial PCI
Operating Temperature Class	commercial PCI
Literature	Abaco SBS BSI 4422-PCI listings
Functions	telemetry module
Documentation Type	OEM telemetry catalog
Brand Lineage	BSI SBS Abaco
System Role	PCI telemetry I/O
Standard Class	PCM/IRIG telemetry class
Power	PCI slot
Revision	4422-PCI
Connectors	telemetry I/O per 4422 sheet
Clock Class	bit-rate clock per 4422 sheet
Software	ground-station decomm software class
Calibration Source	OEM published specifications
Export Class	commercial test equipment Notes From Abaco / SBS / BSI 4422-PCI telemetry-module catalog identity. Bit rate, format, and IRIG time options are on the 4422-PCI data sheet.

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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Notes	
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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

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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.