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Data Sheet

August 15, 2026

ABACO SYSTEMS / SBS

Abaco Systems / SBS ABI-PMC-1 Single Channel 1553 to PMC Interface

The Abaco Systems ABI-PMC-1 is a single-channel MIL-STD-1553 to PCI Mezzanine Card interface adapter for system-level test, simulation, and laboratory applications. It operates as a Bus Controller, Remote Terminal, or Bus Monitor on dual-redundant MIL-STD-1553A/B networks, supporting up to 31 simultaneous Remote Terminal configurations. The PMC form factor integrates directly into PMC carrier platforms, delivering full-function 1553 protocol simulation with pointer-driven buffer management and programmable event interrupts. Map and Sequential - with user-defined linked-list buffer managementTime-stamp and double-buffer support for captured bus activityOptional 28-channel Discrete I/OOptional 4-channel RS-422 serial interfaceOptional 48-bit IRIG-B clock input for time-code synchronization

Typical Applications Laboratory integration, system simulation, airborne and ground test environmen



MODEL

**Abaco Systems /
SBS ABI-PMC-1**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

ABI-PMC-1

LISTING

[https://aumictechlabs.c
om/products/abi-pmc-1
-2/](https://aumictechlabs.com/products/abi-pmc-1-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Abaco Systems ABI-PMC-1 is a single-channel MIL-STD-1553 to PCI Mezzanine Card interface adapter for system-level test, simulation, and laboratory applications. It operates as a

Bus Controller, Remote Terminal, or Bus Monitor on dual-redundant MIL-STD-1553A/B networks, supporting up to 31 simultaneous Remote Terminal configurations. The PMC form factor integrates directly into PMC carrier platforms, delivering full-function 1553 protocol simulation with pointer-driven buffer management and programmable event interrupts. Technical Specifications Model: ABI-PMC-1 Manufacturer: Abaco Systems / SBS Form Factor: PCI Mezzanine Card (PMC) Bus Standard: MIL-STD-1553A/B, dual-redundant single channel Operating Modes: Bus Controller (BC), 31 Remote Terminals (RT), Bus Monitor (BM) Data Architecture: Pointer-driven transmit and receive buffers with extensive programmable event interrupts Weight: Approximately 3.24 oz Key Features BC simulation supports linked-list command structures: BC-to-RT, RT-to-BC, RT-to-RT, mode code, broadcast, and time-delay block transmissions RT simulation via pointer tables linked to control data buffers Dual bus monitoring modes Map and Sequential - with user-defined linked-list buffer management Time-stamp and double-buffer support for captured bus activity Optional 28-channel Discrete I/O Optional 4-channel RS-422 serial interface Optional 48-bit IRIG-B clock input for time-code synchronization Typical Applications Laboratory integration, system simulation, airborne and ground test environments requiring 1553 protocol emulation across multiple node roles. Compatibility & Integration Supports BusTools/1553-API and Core API software frameworks. Multiple firmware configurations available, including Full Function with DMA and B2 Protocol with DMA variants. Compatible with PMC carrier platforms such as the CPMC1 CompactPCI host.

ABIPMC Characteristics / Specifications

PARAMETER	VALUE
Model	ABI-PMC-1
Instrument Type	MIL-STD-1553 PMC interface
Card Form Factor	PMC
Mil Std Protocol	MIL-STD-1553 dual redundant
Dual Redundant Channels This Config	1
Abi Family Variant	ABI-PMC
Remote Terminals Emulated	up to 31
Bus Controller Mode	concurrent supported
Bus Monitor Mode	dual-function BM supported
Mass Abi Pmc	3.24 oz
Temperature Classes Abi Pmc	commercial extended temperature and conduction cooled
Operating Mode Class	ABI full function
Application Class	lab simulation test
Irig Time Code Option	yes
Ordering Alias	ABI-PMC-1
Form Factor Class	PMC mezzanine
Concurrent Bc Operation	supported
Concurrent Rt Count Maximum	31
Dual Function Bus Monitor	supported
Restricted Production Phase Date	July 1 2010
Mass Rating	3.24 oz

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	
Specifications	
PARAMETER	VALUE
Model	ABI-PMC-1
Instrument Type	MIL-STD-1553 PMC interface
Card Form Factor	PMC
Mil Std Protocol	MIL-STD-1553 dual redundant
Dual Redundant Channels This Config	1
Abi Family Variant	ABI-PMC
Remote Terminals Emulated	up to 31
Bus Controller Mode	concurrent supported
Bus Monitor Mode	dual-function BM supported
Mass Abi Pmc	3.24 oz
Optional Rs422 Channels: 4 Optional Discrete Io Channels: 28 Optional IrigBClock: 48 bit input	
Specifications	
PARAMETER	VALUE
Temperature Classes Abi Pmc2	commercial extended temperature and conduction cooled
Operating Mode Class	ABI full function
Application Class	lab simulation test
Irig Time Code Option	yes
Ordering Alias: ABI-PMC-1	
Specifications	
PARAMETER	VALUE
Form Factor Class	PMC mezzanine
Concurrent Bc Operation	supported
Concurrent Rt Count Maximum	31
Dual Function Bus Monitor	supported

Optional IrigBWidth: 48 bit
Optional Rs422 Count: 4
Optional Discrete Io Count: 28
Restricted Production Phase Date: July 1 2010
Mass Rating: 3.24 oz

Notes

From Abaco ABI-PMC product specifications for concurrent BC/31 RT/BM operation, optional RS-422 discrete and IRIG resources, and 3.24 oz mass. Channel count follows the queue ABI-PMC / ABI-PMC2 order codes.

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.