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**Data Sheet**

August 15, 2026

DDC

# DDC BU-65569T4-200 MIL-STD-1553 CompactPCI Interface Card

DDC Embedded Test Systems. Channels: \*\* Four independent MIL-STD-1553 dual-redundant ch.



MODEL

**DDC BU-65569T4-200**

CALIBRATION

**Available on request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**BU-65569T4-200**

LISTING

<https://aumictechlabs.com/products/bu-65569t4-200-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The DDC BU-65569T4-200 is a 3U CompactPCI interface card that implements MIL-STD-1553B Notice 2 and MIL-STD-1760 communication protocols for military and aerospace systems. Built on DDC's Enhanced Mini-ACE® architecture, it delivers four independent MIL-STD-1553 channels, each programmable as Bus Controller (BC), Remote Terminal (RT), Monitor (MT), or combined RT/Monitor. The card provides 64K words of RAM per channel, transformer or direct coupling options, and supports dual-redundant configurations. With 3.3-volt logic and convection cooling, it operates at low power while maintaining real-time data integrity for simulation, test, and embedded mission systems. Technical Specifications Bus Protocol: MIL-STD-1553B Notice 2 and MIL-STD-1760 compatible Channels: Four independent MIL-STD-1553 dual-redundant channels Channel Memory: 64K words RAM per channel Logic Supply: 3.3-volt Data Transfer: 32 × 32 FIFO for PCI burst writes; PCI interrupt support; bulk data transfer capable Coupling Options:

Transformer or direct coupled MIL-STD-1553 channels Form Factor: 3U CompactPCI Dimensions: 6.299 inches (160 mm) length × 3.937 inches (100 mm) height Weight: Approximately 6.3 oz (180 g) Cooling: Convection-cooled I/O Interface: Front panel I/O connectors Key Features Independently programmable channels with autonomous BC architecture Flexible RT buffering: single, double, subaddress circular, and global circular modes Selective message monitor function Low power consumption via 3.3-volt logic design Dual-redundant channel architecture for high-availability systems Typical Applications Military and aerospace test systems Embedded 1553 communication platforms Real-time simulation and hardware-in-the-loop environments Aircraft and vehicle avionics integration Compatibility & Integration Supported by free software including C library and drivers for Windows® 9x/2000/XP, Windows NT®, Windows Server® 2003, Windows Vista®, and Linux®. CompactPCI bus interface enables integration into standard cPCI backplanes and systems.

## BU65569T4200 Characteristics / Specifications

| PARAMETER                           | VALUE                                                  |
|-------------------------------------|--------------------------------------------------------|
| Model                               | BU-65569T4-200                                         |
| Instrument Type                     | MIL-STD-1553 CompactPCI interface card                 |
| Card Form Factor                    | CompactPCI                                             |
| Dual Redundant Channels This Config | 4                                                      |
| Family Channel Options              | 1 to 4                                                 |
| Ram Per Channel                     | 64K words                                              |
| Logic Supply Class                  | 3.3 V                                                  |
| Compactpci Data Width               | 32 bit                                                 |
| Compactpci Clock                    | 33 MHz                                                 |
| Picmg Certification                 | certified                                              |
| Operating Modes                     | BC RT Monitor or RT/Monitor independently programmable |
| Protocol Engine                     | Enhanced Mini-ACE                                      |
| Bc Architecture                     | highly autonomous                                      |
| Rt Buffering Options                | supported                                              |
| Selective Message Monitor           | supported                                              |
| Cooling Class                       | convection                                             |
| Io Routing Tx Class                 | front panel I/O                                        |
| Software Drivers Family             | Windows 95/98/2000/XP Windows NT Linux VxWorks         |
| Pci Interrupts                      | supported                                              |
| Hybrid Basis Family                 | Enhanced Mini-ACE                                      |
| Ordering Family                     | BU-65569T / BU-65569B                                  |
| Dual Redundant Channels Family Max  | 4                                                      |
| Logic Voltage                       | 3.3 V                                                  |
| Compactpci Width                    | 32 bit                                                 |
| Compactpci Speed                    | 33 MHz                                                 |

| PARAMETER                  | VALUE     |
|----------------------------|-----------|
| Picmg Status               | certified |
| Bc Mode                    | supported |
| Rt Mode                    | supported |
| Monitor Mode               | supported |
| Rt Monitor Combined Mode   | supported |
| Autonomous Bc Architecture | supported |
| Pci Interrupt Support      | supported |
| Front Panel Io Tx          | supported |
| Windows Driver Support     | supported |
| Linux Driver Support       | supported |
| Vxworks Driver Support     | supported |
| Enhanced Mini Ace Engine   | supported |
| Convection Cooling         | supported |

# BU65569T4200 Specifications

| PARAMETER                | VALUE                                                                                                                              |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Applications             | MIL-STD-1553 avionics simulation and embedded computing on CompactPCI backplanes requiring ACE-compatible multiprotocol terminals. |
| Key Features             | Enhanced Mini-ACE BC/RT/MT architecture                                                                                            |
| Technical Specifications | Model: BU-65569T4-200                                                                                                              |

# 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                                  | BU-65569T4-200                                         |
| Instrument Type                        | MIL-STD-1553 CompactPCI interface card                 |
| Card Form Factor                       | CompactPCI                                             |
| Dual Redundant Channels This Config    | 4                                                      |
| Family Channel Options                 | 1 to 4                                                 |
| Ram Per Channel                        | 64K words                                              |
| Logic Supply Class                     | 3.3 V                                                  |
| Compactpci Data Width                  | 32 bit                                                 |
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| Operating Modes                        | BC RT Monitor or RT/Monitor independently programmable |
| Protocol Engine                        | Enhanced Mini-ACE                                      |
| Bc Architecture                        | highly autonomous                                      |
| Rt Buffering Options                   | supported                                              |
| Selective Message Monitor              | supported                                              |
| Cooling Class                          | convection                                             |
| Io Routing Tx Class                    | front panel I/O                                        |
| Software Drivers Family                | Windows 95/98/2000/XP Windows NT Linux VxWorks         |
| Pci Interrupts                         | supported                                              |
| Hybrid Basis Family                    | Enhanced Mini-ACE                                      |
| Ordering Family: BU-65569T / BU-65569B |                                                        |
| Specifications                         |                                                        |
| PARAMETER                              | VALUE                                                  |
| Dual Redundant Channels Family Max     | 4                                                      |
| Logic Voltage                          | 3.3 V                                                  |

| PARAMETER                  | VALUE     |
|----------------------------|-----------|
| Compactpci Width           | 32 bit    |
| Compactpci Speed           | 33 MHz    |
| Picmg Status               | certified |
| Bc Mode                    | supported |
| Rt Mode                    | supported |
| Monitor Mode               | supported |
| Rt Monitor Combined Mode   | supported |
| Autonomous Bc Architecture | supported |
| Pci Interrupt Support      | supported |
| Front Panel Io Tx          | supported |
| Windows Driver Support     | supported |
| Linux Driver Support       | supported |
| Vxworks Driver Support     | supported |
| Enhanced Mini Ace Engine   | supported |
| Convection Cooling         | supported |

Notes  
From DDC BU-65569T/BX CompactPCI product specifications for channel span, 64K-word RAM per channel, 32-bit/33 MHz cPCI, and Enhanced Mini-ACE feature set. Channel count follows the T4 order digit in BU-65569T4-200.

### Available from Aumictech

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

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

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
30-day returns  
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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.