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Data Sheet

August 15, 2026

DDC

DDC BU-65569i1-300 MIL-STD-1553 PCI Card

DDC Embedded Test Systems. Channels: One dual-redundant channel (BU-65569i1-300 configu, Channel: 64K words with parity checking.



MODEL

DDC BU-65569i1-300

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

BU-65569i1-300

LISTING

<https://aumictechlabs.com/products/bu-65569i1-300-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The DDC BU-65569i1-300 is a MIL-STD-1553 PCI interface card that enables bus control, remote terminal emulation, and message monitoring for aerospace and defense test applications. This single-channel dual-redundant card implements DDC's Enhanced Mini-ACE® architecture to deliver autonomous bus controller operation, flexible remote terminal buffering modes, and selective message monitoring. Each channel provides 64K words of RAM with parity checking and supports both transformer-coupled and direct-coupled 1553 connections. Technical Specifications MIL-STD-1553 Channels: One dual-redundant channel (BU-65569i1-300 configuration) Architecture: Enhanced Mini-ACE® RAM per Channel: 64K words with parity checking Coupling: Transformer-coupled or direct-coupled 1553 channels Protocol Support: MIL-STD-1553A/B, McAir, STANAG 3838 Power Supply: 3.3 V logic (PCI interface and 1553 logic); +5 V (1553 transceivers and RAM) Key Features Independent channel programming for Bus Controller, Remote Terminal, Monitor, or RT/Monitor modes Autonomous bus controller with expanded instruction set Remote Terminal buffering: single, double, subaddress circular, and global circular

modes 50% rollover interrupt for circular buffers Interrupt status queue supporting up to 32 events Selective message monitor capability Message scheduling and bulk data transfer support Data block double buffering Asynchronous message transmission Retry mechanisms and bus switching Time tag support Typical Applications Aerospace and defense system integration, MIL-STD-1553 bus simulation, avionics test harnesses, munitions platform diagnostics, and real-time message monitoring in legacy and modern military platforms. Compatibility & Integration The BU-65569i1-300 is supported by free software including a C library and drivers for Windows® (9x/2000/XP/NT/Server 2003/Vista) and Linux. Software abstracts low-level hardware control while preserving full access to Enhanced Mini-ACE features.

BU65569I1300 Characteristics / Specifications

PARAMETER	VALUE
Model	BU-65569i1-300
Instrument Type	MIL-STD-1553 PCI interface card
Card Form Factor	PCI
Dual Redundant Channels	1
Ram Per Channel	64K words
Ram Organization	64K x 16 with parity checking
Logic Supply Voltage	3.3 V
Transceiver And Ram Supply	5 V
Pci Interface Width	32 bit
Pci Clock Maximum	33 MHz
Pci Specification Revision	2.2 target slave
Pci Signaling Environment	3.3 V or 5 V
Pci Write Fifo Depth	32 × 32
Burst Write Example Timing	sixteen 32-bit transfers in approximately 500 ns
Operating Modes	BC/RT/Monitor or RT/Monitor independently programmable
Protocol Support	MIL-STD-1553A/B/McAir and STANAG 3838
Bc Response Timeout Choices	18 22 50 and 130 us programmable
Transmitter Watchdog Timeout Nominal	660.5 us
Board Size	6.875 in long by 4.200 in high (172.72 by 106.68 mm)
Mass Four Channel Card Reference	5.50 oz (156 g)
Plus 5 V Idle Current I	100 mA maximum class
Plus 5 V 25 Percent Duty I	210 mA maximum class
Plus 5 V 50 Percent Duty I	320 mA maximum class
Plus 5 V 100 Percent Duty I	540 mA maximum class
Plus 3.3 V Logic Current I	80 mA maximum class

PARAMETER	VALUE
Power Dissipation Idle I	0.84 W
Power Dissipation 100 Percent Duty I	1.98 W
Hybrid Basis	BU-61864 Enhanced Mini-ACE

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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Transmitter Watchdog Timeout Nominal	660.5 us
Board Size	6.875 in long by 4.200 in high (172.72 by 106.68 mm)
Mass Four Channel Card Reference	5.50 oz (156 g)
Plus 5 V Idle Current I1	100 mA maximum class
Plus 5 V 25 Percent Duty I1	210 mA maximum class
Plus 5 V 50 Percent Duty I1	320 mA maximum class
Plus 5 V 100 Percent Duty I1	540 mA maximum class
Plus 3.3 V Logic Current I1	80 mA maximum class
Power Dissipation Idle I1	0.84 W

PARAMETER	VALUE
Power Dissipation 100 Percent Duty I1	1.98 W
Hybrid Basis	BU-61864 Enhanced Mini-ACE

Notes

From DDC BU-65569iX MIL-STD-1553 PCI card datasheet electrical and physical tables. Current and dissipation rows are the BU-65569i1 column maxima; multi-channel i2/i3/i4 rows differ on the same datasheet.

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>

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.