

**Aumictech**

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Data Sheet

August 15, 2026

DDC

DDC BUS-68005 MIL-STD-1553 Data Bus Exerciser

The DDC BUS-68005 is a MIL-STD-1553 data bus exerciser designed for simulating, testing, and troubleshooting MIL-STD-1553 communication systems. It offers comprehensive capabilities for generating and analyzing 1553 bus traffic, ensuring the integrity and reliability of data transmission in avionics, military, and aerospace applications.



MODEL

DDC BUS-68005

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

BUS-68005

LISTING

<https://aumictechlabs.com/products/bus-68005-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The DDC BUS-68005 is a portable MIL-STD-1553 data bus exerciser that simulates, tests, and troubleshoots MIL-STD-1553A and 1553B communication systems. It delivers full-function simulation of both Bus Controller (BC) and Remote Terminal Unit (RTU) operations, supporting up to 8 simultaneous RTU simulations with flexible memory mapping for real-time transmission and reception. The exerciser implements protocol tests from the SAE AE-9A Production Test Plan, including RT Address, Word Count, Subaddress, Error Injection, Dual-Redundant Operation, Mode Commands, Status Word, Broadcast Messages, and RT to RT Transfers. Technical Specifications System Compatibility: MIL-STD-1553A and MIL-STD-1553B Functional Simulation: BC simulation supports BC-to-RT, RT-to-BC, and RT-to-RT message formats; can simulate both BC and one RTU

in RT-to-RT transfers Remote Terminal Capacity: Up to 8 simultaneous RTU simulations with mapped memory blocks for real-time operation Response Time: 6 to 31 microseconds in 1-microsecond increments Message Gap: Variable Transmitter Amplitude: Variable Response Time-Out: Programmable Error Modes: Single, Repeat, or Halt-on-Error operation; detects response time, continuity, fail-safe timeout, Manchester coding, sync, parity, and bit/word count errors Data Storage: Internal RAM for message/command data, block linking information, transmit/receive words, and control word parameters Key Features Local programming via 24-pad keyboard and 10-character alphanumeric display Remote programming via 8-bit parallel I/O, RS-232, or IEEE-488 (with DMA support) Full RS-232 CRT terminal control for low-speed commands High-speed command interface using single-character ASCII mnemonics with binary byte parameters Error generation and detection with comprehensive diagnostic flagging Built-in power-on self-test Typical Applications MIL-STD-1553 system validation and production testing Remote terminal protocol compliance verification Bus controller functional simulation and troubleshooting RT-to-RT transfer testing Compatibility & Integration The BUS-68005 interfaces with test systems and production environments through RS-232, IEEE-488 (including DMA), and parallel I/O connectivity, enabling integration into automated test sequences.

BUS68005 Characteristics / Specifications

PARAMETER	VALUE
Model	BUS-68005
Instrument Type	MIL-STD-1553 data bus exerciser
Busses	MIL-STD-1553A and 1553B
Nsn	6625-01-242-5216
Overall Length	17.000 in
Overall Width	14.500 in
Overall Height	3.470 in
Ac Voltage	115.0 V minimum to 230.0 V maximum
Line Frequency	47.0 Hz to 63.0 Hz
Keyboard	24 pad
Display	10 character alphanumeric
Remote Parallel	8 bit I/O
Remote Serial	RS-232
Remote Gpib	IEEE-488 DMA real-time
Protocol Tests	SAE AE-9A RT production test plan
Test Coverage	RT address word count subaddress errors dual-redundant mode commands status broadcast RT-RT
Operating Modes	single repeat halt on error
Timing	variable response time variable message gap programmable timeout
Transmitter	variable amplitude
Self Test	built-in
Rack Hardware	includes 2 rack adapters and hardware
Mechanical Package	portable rack mountable
Manufacturer	Data Device Corporation

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	
From DDC BUS-68005 product description and NSN 6625-01-242-5216 dimensional/power records. Confirm installed IEEE-488 versus RS-232 option set on the rear panel.	

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.