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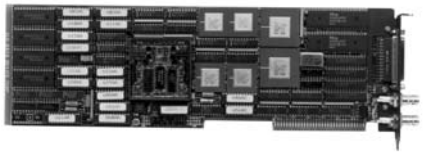
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IBM® PC COMPATIBLE MIL-STD-1553 SIMULATOR AND TESTER CARD



DESCRIPTION

DDC's BUS-65517II is a versatile, full-size IBM PC printed circuit card designed for the test and simulation of MIL-STD-1553 systems. It provides full, intelligent interfacing between the serial dual redundant MIL-STD-1553 data bus and the IBM PC. The user-friendly software allows the BUS-65517II to simultaneously simulate a Bus Controller (BC), multiple Remote Terminal Units (RTUs), and/or a selectable, triggerable Bus Monitor (MT). The BUS-65517II may be either direct or transformer coupled to an external 1553 bus for use with user-provided 1553 devices.

The BC and RTUs evaluate each 1553 message in real-time, determining if any format errors have occurred. Separate registers are maintained for the last command word and the last status word of each emulated RTU. In addition, the user may inject errors into any 1553 message issued by the emulated BC or RTUs. These errors include word count, bit count, zero crossing, parity, and, in the case of emulated RTUs, response errors (including the setting of any bit within the particular RTU's status word).

The intelligent MT captures the 1553 bus traffic. The user can define when MT operation is to begin and which messages ((based on the RTU address, T/R bit, and subaddress) are to be captured. Monitored information is displayed on a message by message basis.

Operation requires an IBM PC or compatible (with DOS 3.1 or higher), 640K RAM, BUS-65517II card, and DDC provided software. Optional software is available to allow the BUS-65517II RTUs to respond within the timing constraints of MIL-STD-1553A. An optional driver allows the user to control the operation of the BUS-65517II (see BUS-69008II data sheet for details). These features make the BUS-65517II an excellent choice for dynamic simulation of MIL-STD-1553B systems.

FEATURES

- ***Simulation and Test of MIL-STD-1553 Systems***
- ***Simultaneous Emulation of BC, up to 31 RTUs, and MT***
- ***MT Mode Reconstructs 1553 Bus Traffic***
- ***Error Injection/Detection Capabilities***
- ***User-Friendly Software***
- ***Optional RT Production Test Plan Software***
- ***Optional 1553A Response and Real-Time Driver Software Available***

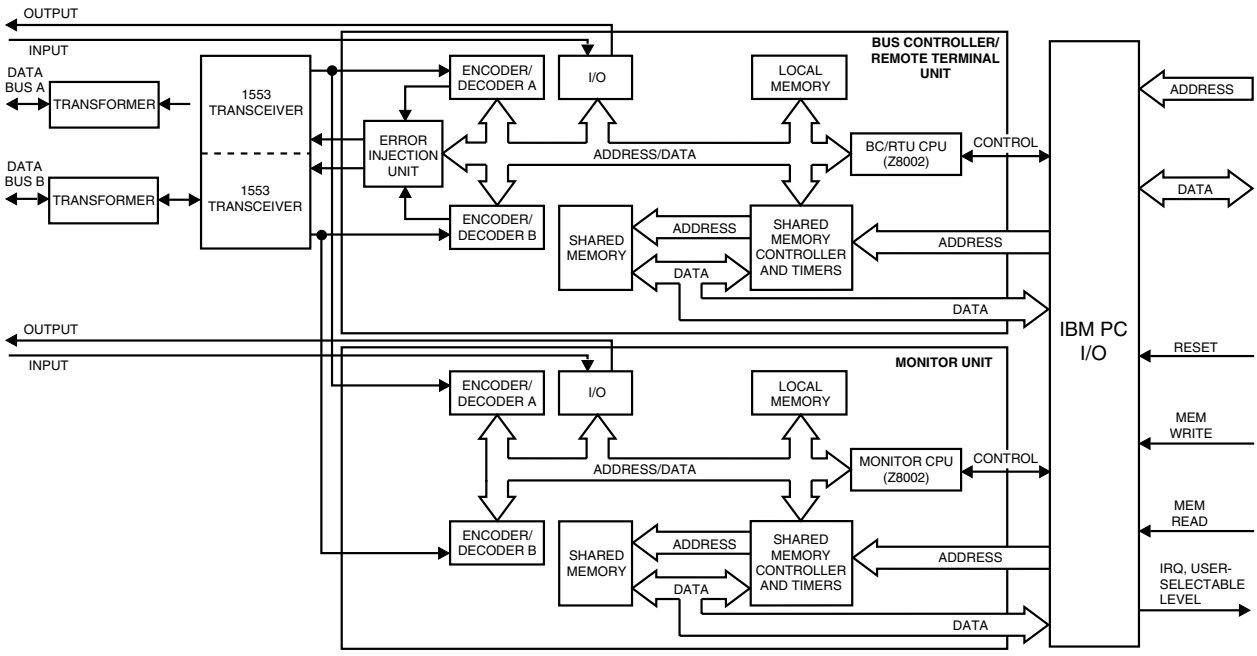


FIGURE 1. BUS-65517II BLOCK DIAGRAM

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CE MARK CERTIFICATION

This product carries the CE MARK signifying conformance to the requirements of COUNCIL DIRECTIVE 89/336 EEC. The supporting test (report) is on file at DDC, New York, USA and is available for on-site review.

105 Wilbur Place • Bohemia • New York • 11716-2482
Tel: (631) 567-5600 • Fax: (631) 244-8252
www.ddc-web.com

DECLARATION OF CONFORMITY

We Data Device Corporation
105 Wilbur Place
Bohemia, NY 11716-2482

declare under our sole responsibility that the product(s)

BUS-655172

to which this declaration relates is in conformity with the following standard(s) or other normative document(s):

EN 55022-1: 1998 CLASS B; Conducted Emissions (150kHz to 30MHz)
CLASS B; Radiated Emissions (30MHz to 1GHz)

EN 50082-1: 1997 EN 61000-4-2:1995; Electrostatic Discharge
EN 61000-4-3:1997; Radiation Immunity
ENV 50204:1994; Radiated Immunity, Pulsed
EN 61000-4-4:1995; EFT/Burst, Power and I/O Leads
EN 61000-4-5:1995; Surge Immunity, Power Leads
EN 61000-4-6:1996; Conducted Immunity, Power and I/O Leads
EN 61000-4-11:1994; Voltage Dips and Interrupts

following the provisions of COUNCIL DIRECTIVE 89/336 EEC

Place Bohemia, NY USA

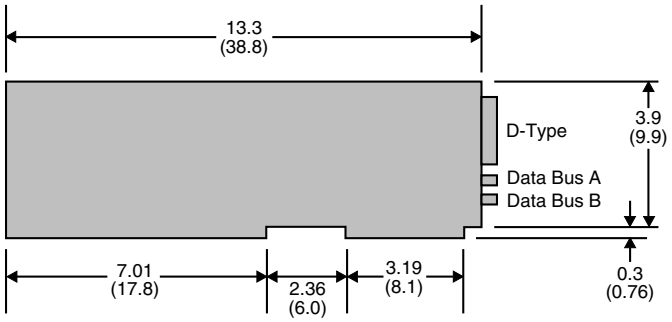
(Signature)

Date May 2, 2000

Joseph Saber
(Full Name)

Director, Product Assurance
(Position)

DDC-PAF-635A
04/05/2000



Note: Dimensions are in inches (centimeters)

BUS-65517II MECHANICAL OUTLINE

ORDERING INFORMATION

BUS-65517II MIL-STD-1553 Simulator and Tester (IDEA) Card.

BUS-690XXII

Software Upgrades:

23 = Production Test Plan, plus 690035 components
24 = Validation Test Plan, Production Test Plan, plus 690035 components,
35 = Reconstructor, Parameter Monitor, “C” libraries (RTL) and Menu for DOS, Windows 3.1X, 95 and NT, support for MIL-STD-1553 A and B

Notes:

1. Above configurations are supported by Rev. E, U54 PAL.
2. The following part numbers are superceded by BUS-69035:
   BUS-69008, BUS-69009, BUS-69012, BUS-69018,
   BUS-69019, BUS-69025, BUS-69028 and BUS-69029

These products contain tin-lead solder finish as applicable to solder dip requirements.

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