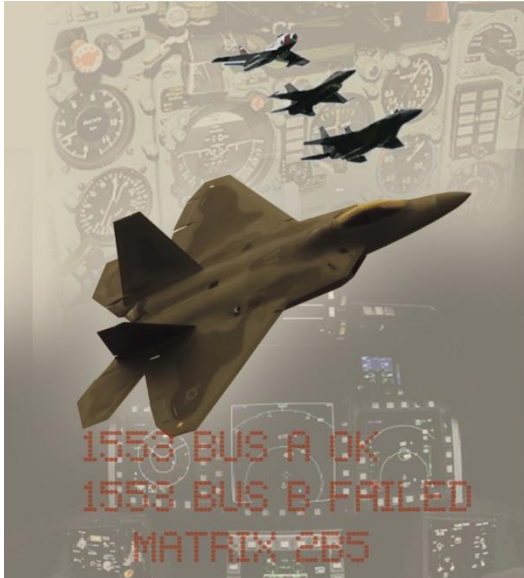


MIL-STD-1553 Bus Tester and Loader



MultiComBox™

For 1553 Bus Testing

Compact, Robust, Reliable
MIL-STD-IP-Cores

Specifications

Compatibility

- MIL-STD-1553B Notice 2
- USB 2.0, 480Mbps
- 2 x 1553 channels of 1Mbps Data Rate
- Supports H009, WB194 bus protocols
- 4 x RS-485 channels

Host Requirements

- USB 2.0 interface
- Operating system
 - Windows 2000 sPac 4
 - Windows XP sPac 2
 - Windows Vista
 - Windows 7
- 256 MB of RAM

Power

- 5 Vdc DC Jack or
- Uses USB's 5Vdc power up to 0.5 Amp

Software Support

- Shared Library - DLL
- **MuxSim™ and MuxMonitor™** - Windows GUI for 1553 traffic generation and analysis
- **MCXSim™** for batch control and simulation

Available Configurations

- 2 x 1553 Dual-Redundant channels
 - WB-194 / H009 protocols
 - 4 x RS-485 serial channels
- or
- 1 x 1553 Dual-Redundant channel

More 1553 Products from Sital

- MIL-STD-1553 IP Cores for FPGAs
- MIL-STD-1553 Components
- MIL-STD-1553 Boards

Key Features and Benefits

- Two channels Mil-Std-1553B Bus tester
- Suitable for any MIL-STD-1553 BC, RT, MT testing
- USB 2.0 interface to PC, Allows real time tester control
- Four channels of RS-485 for additional testing capabilities
- 1Mbit (64K Word) Internal memory
- Works on USB power. No need for external power source
- Multiple RT simulation (up to 31 RTs)
- Programmable Status word and Mode Code
- Error injection and detection
- Time tagging for each message
- All active RT tables changeable in real time
- Data and Status words changeable in real time
- Provided with Windows drivers, GUI and libraries
- **MuxSim™ and MuxMonitor™** SW for traffic generation and analysis
- Channels can be configured for Mil-Std-1553, H009, and WB-194
- Other configurations available, for example for Data Loaders, protocol translation, etc.



The TST1553USB unit provides full MIL-STD-1553B test, simulation and bus analysis capability in a compact, self-contained unit. It connects via a USB 2.0 interface to any host system. The MultiComBox unit supports concurrent Bus Controller (BC) and up to 31 Remote Terminals (RT) with Bus Monitor (MT). Full error injection capability is available in BC and RT modes with full error detection in BC, RT and MT modes.

The unit is supplied with C driver library, together with Windows GUI, providing a user-friendly software tool for all 1553 set-ups, data management and storage.

Specifications

Compatibility

- MIL-STD-1553B Notice 2 messages and frames
- Sital Technology USB/1553 tester

PC Requirements

- Intel® Pentium 4 and up
- AMD®

RAM

- 512 MB minimum

Disk

- 0.5 GB available for DotNet and MuxView installations

Operating Systems

- Windows XP Service Pack 2
- Windows Vista
- Windows 7
- Windows 8

Ordering Information

- TST1553USB-2-4
2 x 1553 + 4 x RS-485
- TST1553USB-1-0
1 x 1553
- TST194ADD
WB-194 + H009 features
- TSTEBRADD
EBR 1553 features

Sital Technology Ltd.

Tel: +972-9-7633300
Fax: +972-9-7663394

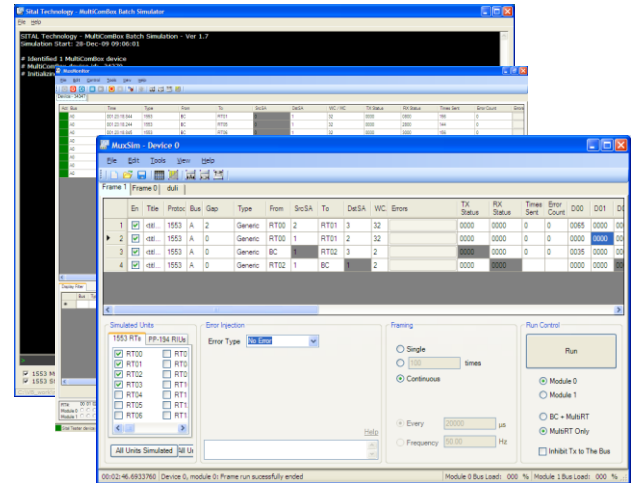
Email: info@sitaltech.com
Web: www.sitaltech.com



MuxSoft™ - Software for Mil-Std-1553 Test and Analysis

MuxSoft™ includes **MuxSim™**, **MCXSim™** and **MuxMonitor™** - user-friendly, intuitive software tools for traffic generation, monitoring and analysis of Mil-Std-1553 and other protocols.

Working in conjunction with MultiComBox™, **MuxMonitor™** can monitor messages, frames and errors and analyze the status of each unit and frame on the bus. It provides triggers and filters for monitoring and displaying of recorded data. Recorded frames can also be exported as XML, CSV and other file formats for future use or for interacting with other programs.



MuxSim™ can manage and simulate all traffic on the bus. It can handle a large number of Mil-Std-1553 frames, which can be inserted by the user, recorded from the bus or imported from XML files. In order to facilitate the test, **MuxSim™** can simulate 1553 RTs, thus enabling the user to test the full Interconnect Control Document (ICD) without having to physically connect all LRUs. The user can easily select which units are to be simulated and which units are real.

Key Features and Benefits:

- Easily Create messages and frames
- Simulate Bus Controller and up to 31 Remote Terminals
- Programmable error injection: Parity, Bi Phase, Sync and Zero Crossing
- Define the amount and rate of the frames to be transmitted
- Monitor and record in real-time, all bus activity or selected messages
- Trigger recording or search replay files using complex expressions
- Export recorded files raw data values to XML or CSV format
- Replay recorded data or segments of recorded data for purposes of analyzing complex patterns of data, time, alarms and errors
- Display raw data sequentially or selectively in hex, decimal, binary and octal
- Translate raw data into engineering units by specifying scale or offset or by writing your own DLL based functions
- Track error messages
- Use text scripts for running pre-defined tests
- Create your own application using Sital's DLL functions

About Sital

Sital Technology provides world-class products and expertise for communication bus applications in the avionics, aerospace and automotive industries. Sital embeds its vast experience and proficiency in its products which include Mil-Std-1553 and other avionics IP cores, components, boards and testers, as well as CAN bus devices and applications. With its highly-experienced staff of experts, the company's Projects Division undertakes design, integration and turn-key engagements on behalf of the world's leading commercial and military avionics companies, space agencies, and automobile designers and manufacturers. Sital's bus technologies and expertise improve robustness and efficiency as they lower cost, space and resource utilization.

Sital's formidable customer list includes leading military and commercial organizations throughout the world among them: NASA, Boeing, Lockheed-Martin, Honeywell, Raytheon, General Motors, British Aerospace, Orbital Science, Thales, ECIL(India), Aselsan, Elbit, Rafael and IAI.



Represented in USA by: sealevel.com Phone 864.843.4343