MIL-STD-1553B - MIL-STD-1553 is a military standard published by the United States Department of Defense that defines the mechanical, electrical, and functional characteristics of a serial data bus. It features a dual, redundant, balanced-line, physical layer; a (differential) network interface; time division multiplexing; half-duplex command/response protocol; and up to 31 remote terminals (devices). NAI's MIL-STD-1553 communication smart function modules provide programmable 1, 2 or 4-channel and dual-redundant in transformer-coupled or direct-coupled interfaces and possess an improved assisted mode.

Module	Description
FTA	1 Channel, MIL-STD-1553, Dual Redundant, Transformer Coupled, Assisted Mode Capable (AMC)
FTB	2 Channels, MIL-STD-1553, Dual Redundant, Transformer Coupled, Assisted Mode Capable (AMC)
FTC	4 Channels, MIL-STD-1553, Dual Redundant, Transformer Coupled, Assisted Mode Capable (AMC)
FTD	1 Channel, MIL-STD-1553, Dual Redundant, Direct Coupled, Assisted Mode Capable (AMC)
FTE	2 Channel, MIL-STD-1553, Dual Redundant, Direct Coupled, Assisted Mode Capable (AMC)
FTF	4 Channel, MIL-STD-1553, Dual Redundant, Direct Coupled, Assisted Mode Capable (AMC)

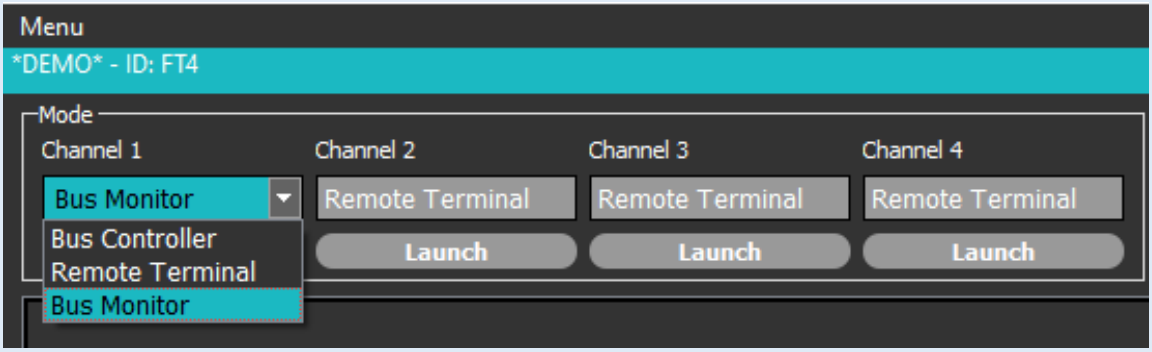
Key Features

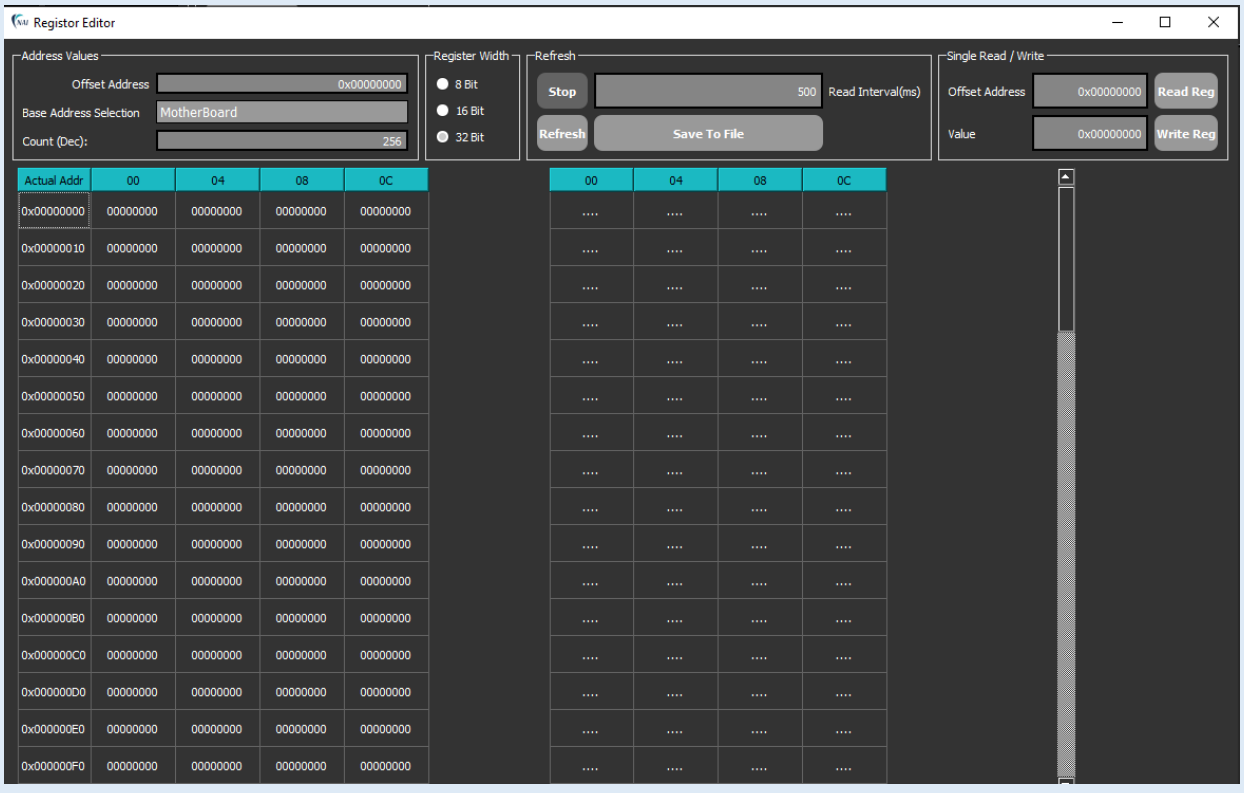
- Independent (dual-redundant) MIL-STD-1553 interface channels: Bus Controller (BC), Remote Terminal (RT), and Bus Monitor (BM) or RT/BM combined mode operation
- Assisted Mode (AM)
- 16K words on-board memory/channel
- IP-core register-compatible with DDC™ family of devices
- Ability to set message retry policy
- Message scheduling capability
- Asynchronous message capability Message FIFO capability

New Embedded Soft Panel

North Atlantic Industries offers the newest cross platform (Windows and Linux) GUI for our Gen 5 products that allows a user to quickly interact with our broad range of modular, I/O cards and rugged embedded computing products. Embedded Soft Panel 2 (ESP 2) is coherent and easy to use with a clean, fleshed out UI with features such as drag and drop dock able windows, a dark and light theme, and multi-language support. Multiple ways to open a board are offered, including saving board opening settings for future use. Interacting with and collecting information on hardware is simple to do with the register editor for reading and writing specific addresses, and the API logger which logs all API library calls including their return status and parameters. ESP 2 has many new features and provides an organized and effortless interface for NAI's next generation products. Available for CentOS 7.4 and 8.2 and Windows 10 x64

1553 Example - Module FT4 Demo Mode Screen Shots





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Rev. A