



Selex ES

A Finmeccanica Company

Support & Service Solutions

PXI AVIONIC BUS ANALYZER MODULES

PXI Avionic Bus Analyzer Modules are a family of Bus analyzers and exercisers for 1553B and 3910/EFEX avionic busses.

Two PXI cards, in 3U form, one dedicated to the MIL-STD-1553B bus and the other to the STANAG 3910/EFEX busses.

PXI Avionic Bus Analyzer Modules born to support designers in all test activities in testing, validation and production of systems based on avionic busses. They support automatic VTP and PTP for MIL-STD-1553B, STANAG 3910 and EFEX.

Libraries and Graphic User Interface are included for MS Windows and Linux.

KEY FEATURES

The PXI 1553 Bus Analyzer provides a dual redundant channels bus analyzer and exerciser for MIL-STD-1553B bus with the following features:

- Bus Controller
- Remote Terminal
- Bus Monitor
- Error Injection
- Error Detection
- Trigger Signals Generation on programmable events
- Electrical amplitude programmability for output interface
- Programmable coupling type (Direct or Transformer)

The PXI 3910/EFEX Bus Analyzer provides a dual redundant channels bus analyzer and exerciser for STANAG 3910 and EFEX busses with the following features:

- Bus Controller
- Remote Terminal
- Bus Monitor
- Error Injection
- Error Detection
- Trigger Signals Generator on programmable events
- Electrical amplitude programmability for LS output interface
- Programmable coupling type (Direct or Transformer) for Low Speed lanes



MIL-STD-1553B is a military standard which describes the communication method and specifies the technical requirements for Digital Internal Time Division Command / Response Multiplex Data bus for system integration of aircraft subsystems. The physical layer of data bus system is based on a network of physically separate wires.

STANAG 3910 describes the communication method and specifies the technical requirements for Fiber Optic Digital Time Division Command/Response Multiplex Data Bus for system integration of aircraft subsystems. The physical layer of data bus system is based on a network of separate wires for control and low speed data transmission and a fiber optic network for high speed data transmission.

EFEX standard is an evolution of STANAG 3910 where only high speed data and control transmission are planned. The physical layer of data bus system is based on a fiber optic reflective star coupled network.

