

Introducing the BCIT

TCN's new Bus Characterization and Integrity Toolset (BCIT) is now available in a semi-rugged or fully rugged design. The BCIT provides two vital cable and bus maintenance features wrapped into a single tool. Bus characterization provides databus health information, and bus integrity testing provides electrical analysis of cable networks with a Time Domain Reflectometer (TDR).

Benefits

BCIT offers the ability to test Mil-Std-1553 databus networks from end-to-end with a single tool; capture faults impacting bus protocol, such as faulty stubs or terminals; locate cable faults to within six inches on a 1,000-ft cable; and find intermittent faults by capturing data only when an anomaly occurs using the TDR's triggered mode.

Various Features

- Portable, self-contained rugged or semi-rugged unit
- Removable hard disk and memory write protection for classified environments
- Microsoft Windows software for easy setup and analysis
- Monitor up to four fully loaded Mil-Std-1553 dual redundant buses simultaneously
- Color-coded dynamic displays with intuitive analysis features
- Monitor bus health and protocol and display error conditions
- Displays real-time statistical information about bus loading and errors
- Locate problem areas on the bus during live operations
- Database of historical tests for predictive maintenance and comparative analysis

- Test twisted pair 1553 cables for opens, shorts, and faulty shields
- Locate cable faults to within 6 inches on a 1,000-ft or less cable
- Track cable degradation and predict failure through the TDR

Applications

The BCIT can be used with any Mil-Std-1553 system, including aircraft, tanks and ships that use the 1553 databus architecture to link their supporting electronic systems into a federated data distribution network. For more information, visit www.itcn-test.com.

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ITCN ...defining **synchronized** Instrumentation **ITCN**

If You Have MIL-STD-1553... You Need BCIT
Bus Characterization and Integrity Toolset

BCIT Highlights and Benefits:

- End-to-end testing of MIL-STD-1553 networks using a single tool
- Monitor up to four fully loaded, dual redundant 1553 channels simultaneously
- Detect cable shorts, opens and faulty shields to within 6 inches with TDR testing
- Locate network problems faster and more precisely
- Forecast maintenance and compare data with the historical database
- Protect classified environments with the removable hard disk and memory write protection
- Portable, self contained unit available in Semi-Rugged and Fully Rugged cases for your test environment

"... a cross-cutting solution for virtually all platforms utilizing MIL-STD-1553 network architectures... applications include all Air Force and Navy aircraft, Navy surface ships and submarines, Army helicopters and tanks, and many commercial uses."

— AF SBR/STTR Transition Feature Story

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