

Rackmount-Improved Avionics Intermediate Shop Technology Refresh

Proven performance for over 40 years



Features and/or benefits

- Provides avionics testing capability for computers; radars; electronic warfare; flight controls; fire controls; displays; stores management; identification, friend or foe; communications; navigation systems; and targeting pod Line-Replaceable Units (LRU)
- Parametric and functional testing
 - Digital, analog, radio frequency (RF), photometric and pneumatic
 - Color raster and stroke video display and stimulus
 - Full-spectrum RF synthetic instrument (100 KHz to 20 GHz with options to 40 GHz)
 - Robust digital bus emulation system
 - Industry standard computer with Windows®7 operating system and removable drives
 - Automated image processing assembly test bench provides highly accurate head up display (HUD) and display testing
 - Provides unit under test power and refrigerated cooling
- Maintains hardware and software commonality with IAIS family of testers used throughout the world
 - Highly reliable pinless interface and passive interface test adapters
 - Built-in expansion capabilities
 - Sustainment and logistic support in place
- Fully capable of supporting new LRUs and Shop-Replaceable Unit
 - Supports both I and D level test requirements
- Demonstrated cost-effective rehost of legacy test program sets (TPSs)
- Lower life-cycle cost
 - Minimal training required
 - Interchange Virtual Instrument software compliant
 - Self-contained calibration system
 - Based on commercial open architecture standards utilizing both VXI and PXI instrumentation
 - TPSs are 100% compatible with all configurations of the IAIS family of testers

BAE Systems is the original equipment manufacturer for the F-16 I-Level Automatic Test Equipment for over 40 years.

Our Improved Avionics Intermediate Shop (IAIS) and Rackmount-IAIS have been chosen by the U.S. Air Force and 22 other countries to support their aircraft.

Over 300 TPSs have been developed on the IAIS and R-IAIS testers. The AIS, IAIS and R-IAIS are the only F-16 SPO approved I-Level testers supporting the F-16 fighter and qualified to run the entire suite of F-16 TPSs.

Active sustainment projects, depot repairs, and ongoing production extend the useful life through 2030 and beyond.

Technology refresh

National Instruments PXI-based processor running Windows® 7 replaces obsolete computer running Windows® 2000, with removable drives.

PXI chassis with available room for expansion, includes Digital Multimeter and Ethernet switch to replace obsolete instruments.

PXIe-based synthetic instrument microwave unit replaces obsolete VMEbus eXtensions for Instrumentation -based RF instrumentation.

Image Processing Assembly replaces obsolete theodolite and photometer for HUD and displays testing.



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