



Common Test Station (CTS)

Ensuring IFF combat readiness

A one-stop testing solution for all of our IFF products

The Collins Aerospace Common Test Station (CTS) is the latest product in our identification friend or foe (IFF) suite of test equipment. The CTS is a one-stop solution for executing acceptance test procedures, I-level fault isolation maintenance and functional qualification testing across the Collins IFF product line. Product-specific kits, including cables and I-level test applications are fully developed and in use for the APX-114 airborne interrogator, APX-119 transponder and digital control panel, and are in development for our air defense interrogator product line.

The test rack incorporates the Collins common test suite application and hardware architecture allowing for simpler test updates and additions. The interface test assembly (ITA) supports testing of all interrogator

and transponder variants without the need for multiple dedicated test stations.

This commonality simplifies training by using the same user interface structure, test instructions and hardware used in production and test equipment maintenance concepts. The CTS also has autonomous I-level fault isolation self-test capability for the rack itself.

The CTS incorporates a Peripheral Component Interconnect eXtensions for Instrumentation (PXIe) smart serial communication interface, allowing for faster data transfer.

For customers only requiring acceptance testing procedures and I-level fault isolation of the APX-119 transponder and the digital control panel, the CTS can also be configured in a highly compact, half-rack CTS Lite package.

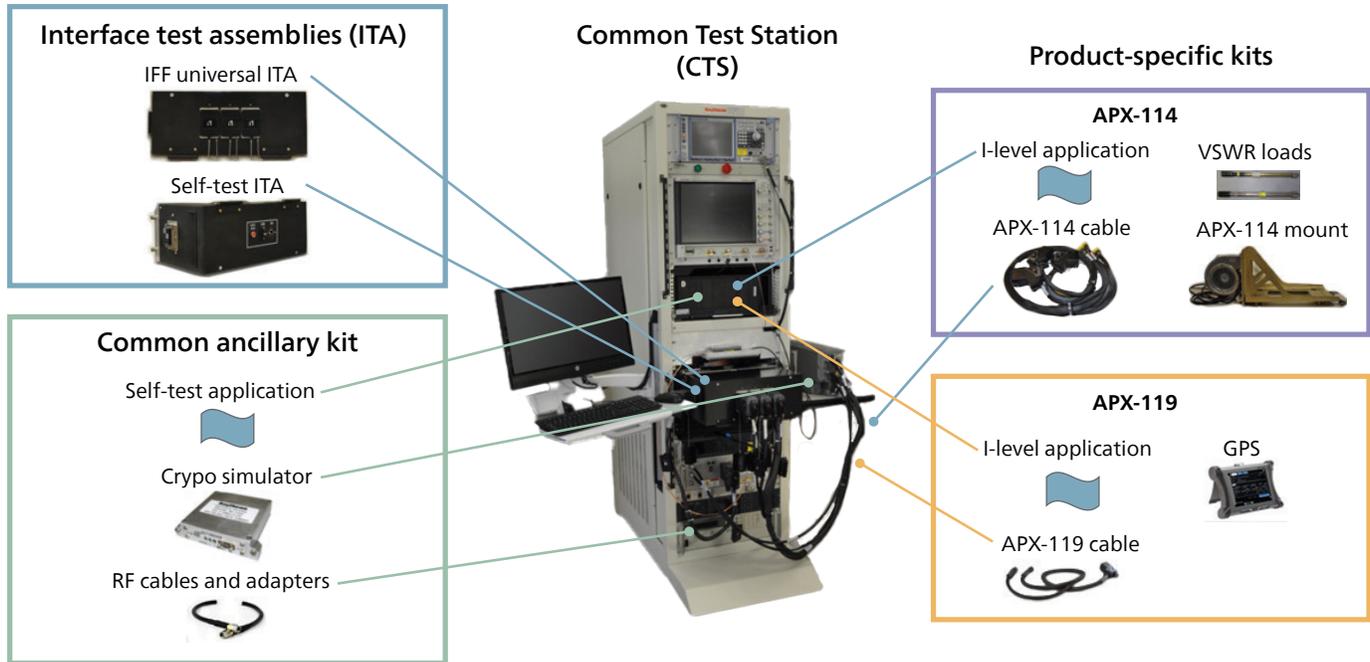


Key features & benefits

- Supports DOD AIMS testing and certification
- Single common test station for APX-114 airborne interrogator, APX-119 transponder, and digital control panel
- Supports localization and in-country repair, resulting in faster turnaround times
- Reduced maintenance and overhead costs
- Rapid transfer of high-data volumes
- All PXI signals routed to termination receiver for simplified maintenance and optimized signal integrity
- ITA supports all interrogator and transponder variants
- Integrated video monitor and keyboard

Common Test Station (CTS)

CTS modular design overview



Common ITAs



CTS ITA



Self-test assembly

Learn more at rtx.com/collinsaerospace

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