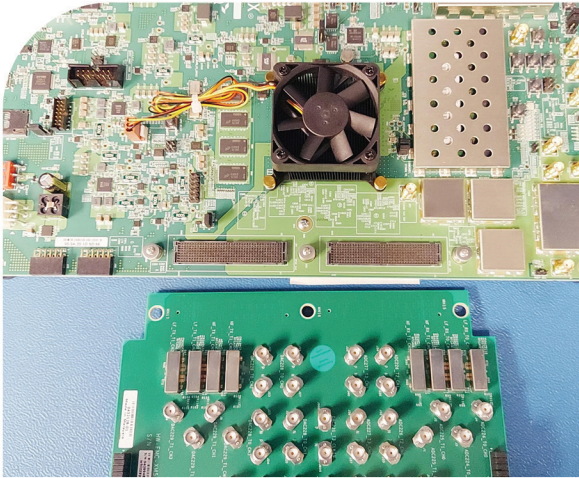


Radio Frequency Hardware in the Loop Testing



HARDWARE-IN-THE-LOOP SYSTEMS ALLOW ELECTRONIC WARFARE SYSTEMS TO TRAIN HOW THEY WILL FIGHT



HARDWARE-IN-THE-LOOP TESTING ALLOWS FOR:

- Characterization of real systems in simulated conditions
- Discovery of problems and their solutions before expensive range testing
- Developmental and Operational Testing and Evaluation for critical system buyoff
- RF interactions in local or distributed Live, Virtual, and Constructive tests

ARA digital Hardware-in-the-loop (HWIL) testing systems let you evaluate real radio frequency system performance in simulated scenarios without going to a range and without exposing sensitive information. You get low-cost testing of real systems while maintaining security. ARA will help you define your HWIL architecture, build custom HWIL systems or assess commercially available options, provide simulation and control software, and provide the right expertise to help you get the most out of your HWIL test systems.

ADVANCED HARDWARE-IN-THE-LOOP ARCHITECTURES LET YOU:

- Evaluate many RF jammers against many radar and communication targets
- Explore advanced concepts like collaborative and cooperative jamming, interference modeling
- Evaluate counter-jamming techniques to evaluate weapon or platform survivability and capability

ARA SUBJECT MATTER EXPERTS CAN HELP YOU:

- Define the right hardware-in-the-loop architecture to fit your needs
- Implement and build hardware-in-the-loop systems
- Understand low-cost alternatives to expensive, exquisite systems
- Design and implement the right control software to drive simulations
- Assist in test execution and data reduction

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