

UEI & Science Applications International Corporation (SAIC)

WORKING TOGETHER TO FIND SOLUTIONS

The Common Aircraft Armaments Test Set (CAATS) is the replacement for the 25-year old Common Rack and Launcher Test Set (CRALTS). SAIC was tasked with designing the next generation armament test set for the military that would become the new standard to test today's smart [armament systems](#). CAATS needed successful test/deployment and troubleshooting capabilities for various military armament and munitions-related equipment in a go-no-go fashion. SAIC needed a hardware partner that offered ruggedness, I/O flexibility and longevity.



THE IMMEDIATE CHALLENGES

- 1 Continuous upgrades in [avionics](#) and armament technology that are required for today's capabilities.
- 2 Independence from obsolete parts or legacy systems, such as VME I/O, while remaining agile and rugged.
- 3 Ability to test new and old munitions.
- 4 Advanced testing functionality and troubleshooting capabilities.

UEI'S PATHWAY TO SUCCESS FOR SAIC

- UEI's [UEIPAC 1200R RACKtangle](#)® became the system controlling CPU as well as provided the bulk of the required I/O interfaces.
- The UEIPAC system allowed for a wide range of I/O options and easy interchange with analog, digital, relay and relay control, MIL-STD-1553, and serial I/O.
- UEI hardware easily handled environmental requirements: Operating temperature of -40° to +85° C, 5 g vibration, 100 g shock and up to 70,000 ft altitude.
- UEI has built in self-test capability on the chassis, card, and channel level via [on-board monitoring \(Guardian series\)](#) that gives the user confidence that the system is operating error free.

END RESULT UEI HELPED CAATS TO BE A FLEXIBLE & ROBUST TESTING SYSTEM FOR GROWING ELECTRONIC CONTENT AND NEW SOPHISTICATED ARMAMENT APPLICATIONS.

[WIN] The CAATS system is dependent upon reduced system weight and costs, while increasing durability, which UEI hardware and I/O solutions met or exceeded.

[WIN] UEI is ¼ the weight and reduced the "packaging" requirements with portability going from 4 marines to 1 marine. Easily test on the flightline to the shop.

[WIN] UEI designed and delivered a [Hellfire \(M272\) missile interface](#) which is available as a COTS product.

[WIN] UEI's [10-year product availability guarantee](#) ensures that CAATS will be operational for the long-term.

ASK US HOW UEI CAN DO THE SAME FOR YOUR COMPANY!

