

## UEI, Fire Test Labs & Property Insurance Company

### WORKING TOGETHER TO FIND SOLUTIONS

A property insurance company needed to develop a new [data acquisition \(DAQ\)](#) system for their fire test labs. This new system would service several labs distributed through its facility and be responsible for measuring around 2400 channels under extreme temperatures. In these labs, DAQ systems would collect data from various tests involving risk prevention equipment such as sprinklers.



### THE IMMEDIATE CHALLENGES

- 1 DAQ hardware used had to be rugged and resilient enough to withstand the extreme temperature and test conditions
- 2 In order to accurately analyze the effects of such large and quick-spreading fires, the insurance company needed DAQ systems to collect real-time data at a rapid rate whilst still being precisely synchronized between system units.
- 3 The new DAQ system had to ensure the security and integrity of collected data in case of network failure or other interruptions by integrating redundant data logging strategies.

### UEI'S PATHWAY TO SUCCESS

- UEI's rugged [UEIPAC cubes](#) are able to withstand 5g Vibration, 100g Shock, and temperatures ranging from -40 to 85 C, making them the perfect fit to tackle the intense conditions of the fire test labs while still providing rapid and reliable data collection.
- UEI cubes will be equipped with SD cards that will record an additional copy of data that is sent to the DAQ server, which then synchronizes the data to eliminate the presence of duplicates.
- UEI's compatibility with physical Ethernet connection ensures the reliability and accuracy of data, allowing for synchronization of clocks down to the sub-microsecond level.

## END RESULT THE INCLUSION OF UEIPAC CUBES IN THE NEW DAQ SYSTEM ENSURED THAT FIRE TEST DATA WAS COLLECTED RAPIDLY

- [WIN]** UEI's [10 Year Availability Guarantee](#) minimizes obsolescence of the insurance company's new DAQ system, allowing for it to quickly and easily replace parts so it can deliver quality service to their customers for years to come.
- [WIN]** UEI's flexible hardware was compatible with the insurance company's existing test hardware, allowing for seamless integration.
- [WIN]** With the help of UEI hardware, the insurance company can carry out fire risk assessment tests to gain insight on how to better ensure their customers' assets.

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

