**Press information**

**All systems go for General Atomics’ new motor** *Advanced DAQ system helps energy and defense expert streamline development process*

*Global, June 2022*To overcome the many issues, such as noise interference, during the development of its latest aerospace motor, General Atomics Electromagnetic Systems (GA-EMS) utilized a specialist data acquisition tool to gather accurate electrical and mechanical data, which helped the engineering team ensure optimization of the new model.

Measurements on a new aerospace motor can present significant challenges; at these power, voltage, and current levels, one of the biggest challenges is measurement noise while the motor is operating. GA-EMS lead electrical engineer, Matthew Zolot explains: “We aim to minimize the noise coupling into the measurement signals or else we’ll have to clean the signals up while we are acquiring them or afterwards.”  
  
To achieve this, General Atomics’ engineering team used several products supplied by measurement specialist Hottinger Brüel & Kjær (HBK) in their work on the new aerospace motor, including an eDrive system based on the Genesis GEN4tB high-speed data-acquisition mainframe, which can transfer data to an external PC at rates of 400 MB/s using 10 Gbit Ethernet.   
  
The eDrive can display data and store massive amounts of raw data in real-time for extended periods, which not only enables users to quickly measure efficiency - and generate efficiency maps - but also helps them understand how to improve efficiency.

The full case study is available on HBK’s website: [DAQ System Helps General Atomics Develop Motor | HBM](https://www.hbm.com/index.php?id=10795)  
  
**Ends**  
 **About HBK – Hottinger Brüel & Kjær**

The two market leaders, HBM and Brüel & Kjær, have joined forces as HBK – Hottinger Brüel & Kjær – to form the world’s foremost provider of integrated test, measurement, control, and simulation solutions.

HBK – Hottinger Brüel & Kjær – provides a complete portfolio of solutions across the test and measurement product life cycle, that unite the physical world of sensors, testing and measurement with the digital world of simulation, modelling software and analysis. By creating a scalable and open data acquisition hardware, software and simulation ecosystem, product developers can cut time-to-market, drive innovation and take the lead in a highly competitive global marketplace.

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