

ExtrIQ – Absolute Reliability for Any Environment

ExtrIQ technology is designed for missions requiring both extreme motion performance and harsh environment durability. ExtrIQ technology combines Elmo's world class servo performance, high efficiency operation, ultra small size and weight, together with the ability to withstand extreme environmental conditions. Field proven for over 15 years, ExtrIQ products are driving the world's toughest applications on the ground, in the air and underwater.



Ambient Operating Temperature
-40°C to +70°C (or more)



Altitude
-400 m to 12,000 m
(-1312 to 39370 feet)
(or more)



Mechanical Shock
75G



Relative Humidity
up to 95% non-condensing



Thermal Shock
-40°C to +70°C (or more)



Vibration
20 Hz –2000 Hz, 14.6 G_{rms}

Servo & Motion for World's Most Critical Missions



Inertial Platform
Stabilization Solution

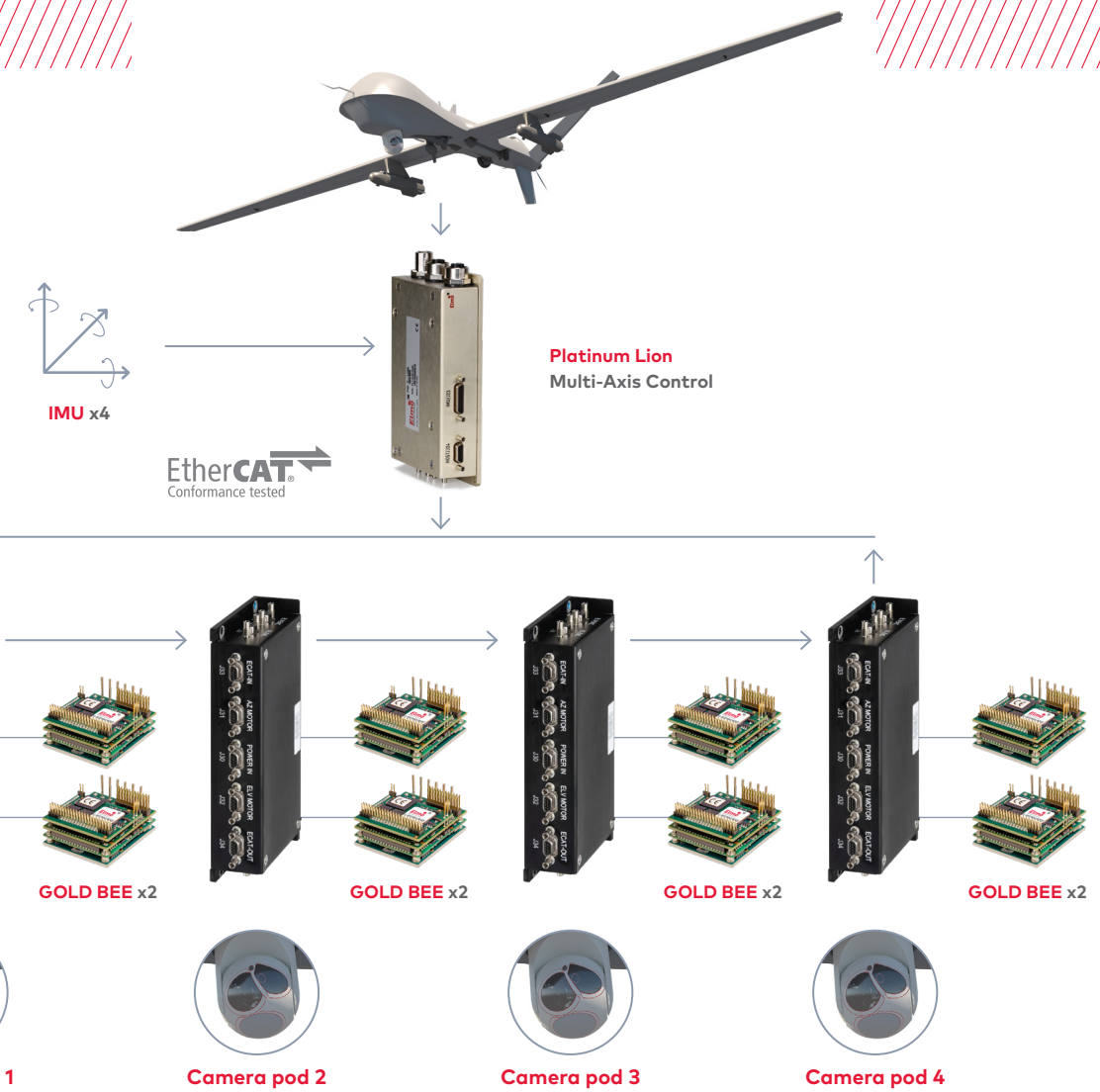


Inertial Platform Stabilization Solution

A complete ready-to-use motion control solution for inertial platform stabilization, whether on ground, in air, or by sea. The solution consists of Elmo's Standard "off the shelf" motion control products. Starting from controller level gyro signal input, to high precision, high dynamics, high bandwidth servo, and the ability to control any number of motion axis, the Elmo solution is a light and robust solution ready to stabilize any platform whatever the environment.

Advanced multi-axis control capabilities, in conjunction with intelligent servo drive technology, guarantee ultimate stabilization performance, saving platform manufacturers dedicated hardware and software development. With advanced control features such as SIL (Software in the Loop), customers can use their own control algorithms, streamline the design process and protect sensitive IP.

A compact, light-weight solution with high bandwidth and efficient networking making it ideal for extreme inertial platform stabilization.



P-Lion

The miniature, light-weight controller is designed for extreme performance in harsh environments with enhanced connectivity and a flexible development environment. Its digital and analog inputs and outputs enable fast and responsive controller-level interfacing with accelerometers, encoders, serial devices, IMUs and gyroscopes. Communicating over EtherCAT, the multi-axis controller achieves cycle times of less than 250µs and high-precision synchronization with a jitter of less than 5µs for up to four inertial stabilized platforms.



G-BEE

High-performance, compact servo with extensive ranges of Power (10W-5.5kW), Voltage (8V-195V), and Current (1A-90A). Bee drives accept any feedback device in single or dual loop configuration, ensuring fast and accurate adjustments in stabilization systems. The drives comply with harsh safety and environmental standards, EMC, and are certified with STO (SIL-3).



EASII

Industry-leading motion software that helps users implement motion simply and seamlessly. The flexible, user-friendly interface contains tools for motor tuning, multi-axis set-up, motion simulations, 2D/3D recording, kinematic configuration, 3 dimensional automatic plant design, and advanced error mapping tools.

