



Attitude Determination and Control (ADC)





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BlueHalo's ADC products include Encoder Signal Processors (ESP), torque rods, Drive Control Units (DCU), and three-axis magnetometers that are all manufactured in the United State and fully qualified to SMC-S-016.

Angle Extraction Unit (AEU)

BlueHalo's Encoder Signal Processor (ESP) is a 16 channel dual-speed Inductosyn™ precision Angle Extraction Processor featuring 16-bit shaft-angle resolution/accuracy. It contains internal power supply and provides self-calibration features.

Mission Control Processor (MCP)

BlueHalo's Spacecraft Control Processor (SCP) contains all the features for complete control of the spacecraft, including attitude control, thermal control, power control, and data management.

- Grade-1 Parts Program
- Certified 15-year Mission Life
- Redundant and Fault Tolerant
- MIL-STD-1553 Data Bus Master (Optional Space Wire Interface)
- Radiation Hardened
- Precision Mission Clock
- ADCS Interfaces

Motor Control Unit (MCU)

Our Motor Control Unit (MCU) is a dual channel, micro-stepping motor control drive component. The MCU features programmable drive current levels and step size.

Torque Rods

BlueHalo's torque rods are standard attitude control components and are parametrically designed to user's requirements. They are manufactured in the United States, providing on-shore source of supply, and are fully qualified to SMC-S-016.

Vector Magnetometer

The Three-Axis Magnetometer provides complete magnetic field measurement capability utilizing highly reliable and precision flux-gate sensor technology. It features separate electronics and sensor assemblies allowing independent placement of sensor assembly as well as an isolated power supply. It is fully qualified to SMC-S-016.