



Attitude Determination & Control (ADC)

AV'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 States and fully qualified to SMC-S-016.

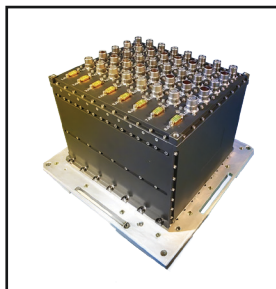
_Angle Extraction Unit (AEU)

AV'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.

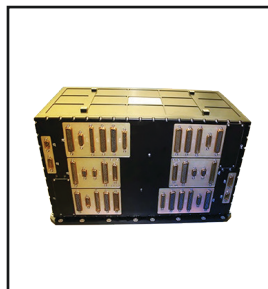
_Mission Control Processor (MCP)

AV'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



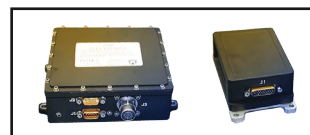
AEU



MCP



TORQUE RODS



VECTOR MAGNETOMETER



MCU

_Motor Control Unit (MCU)

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

_Torque Rods

AV'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.