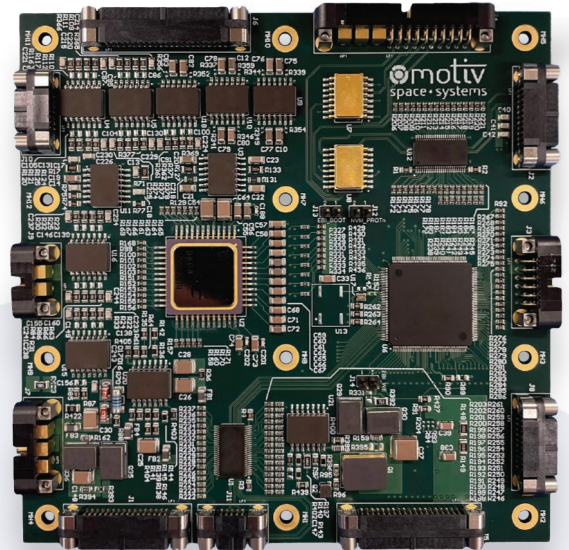



DEEDS Motor Controller


Distributed Extreme Environments Drive Systems


Motiv's DEEDS controller is an all-inclusive motion controller, that enables integrated capability for driving, controlling, and monitoring motion of a single degree-of-freedom. The controller's high current output enables a wide array of demanding use cases, leading to unprecedented application flexibility. The DEEDS controller also provides these capabilities through a wide range of extreme environments without the use of external heating sources, allowing for an easy-to-integrate platform.




FEATURES

 **Single Axis Motor Controller Card with Integrated Capability for Electromagnetic Brake Control**


 **Supports 1x 3-phase BLDC Motor and 2x Electromagnetic Brakes**


 **High Voltage Power Input:**
86V-158V, 15A continuous – 20A peak


 **Logic Power Input:**
24V – 34V


 **Communication:** 2x RS-422


 **BLDC Control:**
Current, Velocity & Position


 **Commutation:**
Hall Sensor or Field Director


 **Brake Control:**
Supports one (Power On) Modulated Brake and one (Power Off) Modulated Brake.


 **Thermal Sensing:**
10x Integrated RTD Channels (4-wire or 2-wire RTD interfaces)


 **Torque Sensing:** Supports one full bridge torque sensor

 **Output Position Sensing:** Dual Speed Resolver with 15 mRad resolution

 **Operational Temperature Range:**
-180°C to + 80°C

 **Survival (Non-Op) Temperature Range:** -190°C to +125°C

 **Radiation Tolerance:**
100Krad capable

 **Physical Dimension:**
215mm x 212mm

SAMPLE APPLICATIONS

- + Wheel Drive Systems
- + Cargo Off-Load Systems
- + Lifting & Hoisting Mechanisms
- + Positioning Systems
- + Robotics

EXPORT RESTRICTIONS

Export of the DEEDS Motor Controller is controlled under Export Control Classification Number (ECCN) 9A515.x and is available for sale in the countries listed in Group A:5.

