

MC1000D SERIES 2-AXIS **BRUSHLESS MOTOR CONTROLLER**



This series of digital militarized low voltage, 2-Axis, Brushless Motor Controllers is designed to provide torque, velocity and position loop closure. The controller accepts command signals from any fire control system (FCS) in either digital or analog format, and interfaces with a control handle. The advanced space vector algorithms provide optimum performance for new or existing motors to provide outstanding power densities. The sides of the controller have holes pre-drilled for use with mounting brackets. Lifting handles (2) can be added if required. See picture on page 2 of an

MC1000D model with lifting handles and shock mounts. Additionally, there are a wide range of end user programmable software features, as listed below.

PROGRAMMABLE SOFTWARE FEATURES

- Extensive built in test
- No-fire zones
- Obstacle avoidance zones
- End-damping limits
- Monitoring System) • Acceleration limits

• HUMS (Health Usage

- Comprehensive loop tuning
- Tracking/Stabilization Modes



- Joystick shaping function
- Analog and digital I/O
- Status and fault history
- Data logging



Note: All of our products are flexible and customizable to meet your specific needs. Please contact us for more information.









MC1000D SERIES 2-AXIS BRUSHLESS MOTOR CONTROLLER

SPECIFICATIONS	
Parameter	Performance
Power Supply (Control Electronics)	18Vdc-32Vdc (per Mil-Std-1275)
Power Supply (Motors)	18Vdc to 60Vdc Motor
Temperature (Ambient)	-40°C to 65°C
Environmental Specification	Complies with Mil-Std-810
Command Communication Interface	CAN-Bus or RS-422 or Ethernet or MILCAN or EtherCAT
EMC Specification	Complies with Mil-Std-461
Weight	45kg (99lb)
Position Sensor Interface	SSI or EnDat Serial Interface
Motor Commutation Sensor	Resolver or Encoder
Envelope	451 x 400 x 197mm (17.8 x 15.7 x 7.8in)
Self Protection	Over-Temperature and Over-Current
Output Current (for each axis)	800A Peak
Option: Stabilization Kit	2-Axis Gyro Interface

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MC1000D Model with Lifting Handles, Shock Mounts and Connector Doghouse



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