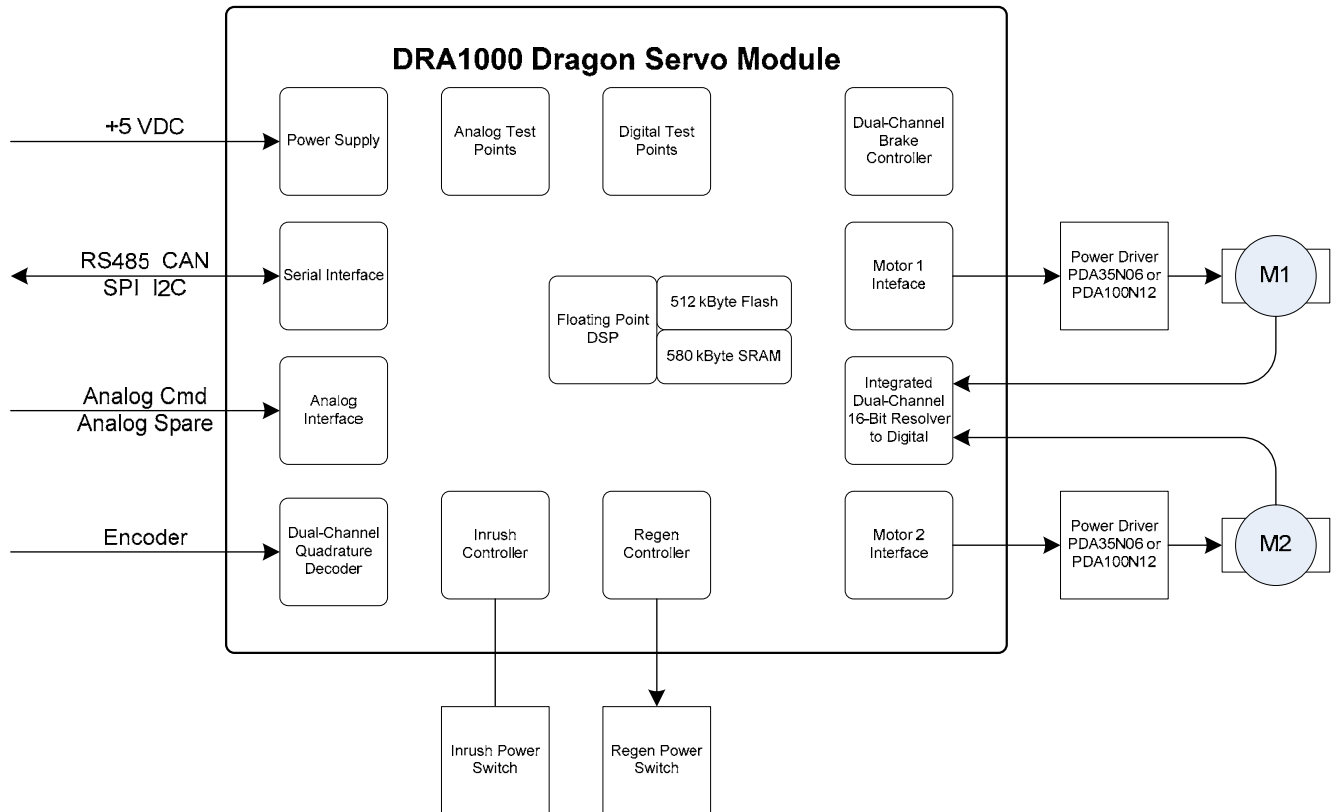


## Dragon DSP Dual-Axis Precision Servo Control Module



***Small ruggedized Dual-Axis servo controller enables independent control of two high-performance motors***

**Features:**

- Small Size: 5.8 square inches - 1.8" x 3.25" x 0.26" = ***Less than 3" Square Inches/Axis!!***
- Xtreme™ Performance
  - > 5kHz Current Loop Bandwidth - ***Highest Bandwidth Available***
  - < 1.5% Current Total Harmonic Distortion
  - Field Oriented Control (FOC) processing engine
- Integrated Low Noise Resolver to Digital Converter
  - ***Less than 0.1 mRad RMS output noise – Ideal for precision positioning***
- Flexible Configuration
  - Brushless DC Motors
  - Induction Motors
  - Sensorless BLDC Motors
- Intuitive GUI configuration utility

Rating Summary:

Item	Units	Value	Notes
Input Power	W	1.5	Controller only – resolver power not included.
Input Voltage	V	5	
Current Loop Bandwidth	kHz	>5	Tested to 8.3 kHz
Current THD	%	<1.5	Tested Conditions: 375 Volt Bus, 5000 RPM, 3 Amp Load, 2-Pole 32V/kRPM Motor,
Resolver Excitation Voltage	V	Vrms	Programmable up to 7 V RMS
Resolver Excitation Frequency	kHz	0.4 to 10.0	Programmable
Resolver Execution Current	mA	200	
Size	ln^2	5.8	1.8" x 3.25" x 0.26"
Storage Temperature	°C (°F)	-50 to 100 (-58 to 212)	Non-Operational
Operational Temperature	°C (°F)	-40 to 71 (-40 to 160)	Operating
Vibration	g	15.0	20 Hz – 2000 Hz
Mechanical Shock	G	40 20	Non-Operating, Half Sine, 11 mS Operating, Half Sine, 11 mS



Figure 1 - Dual-Axis Servo Controller – sub Credit Card Sized