

# QUAD TRON, INC.

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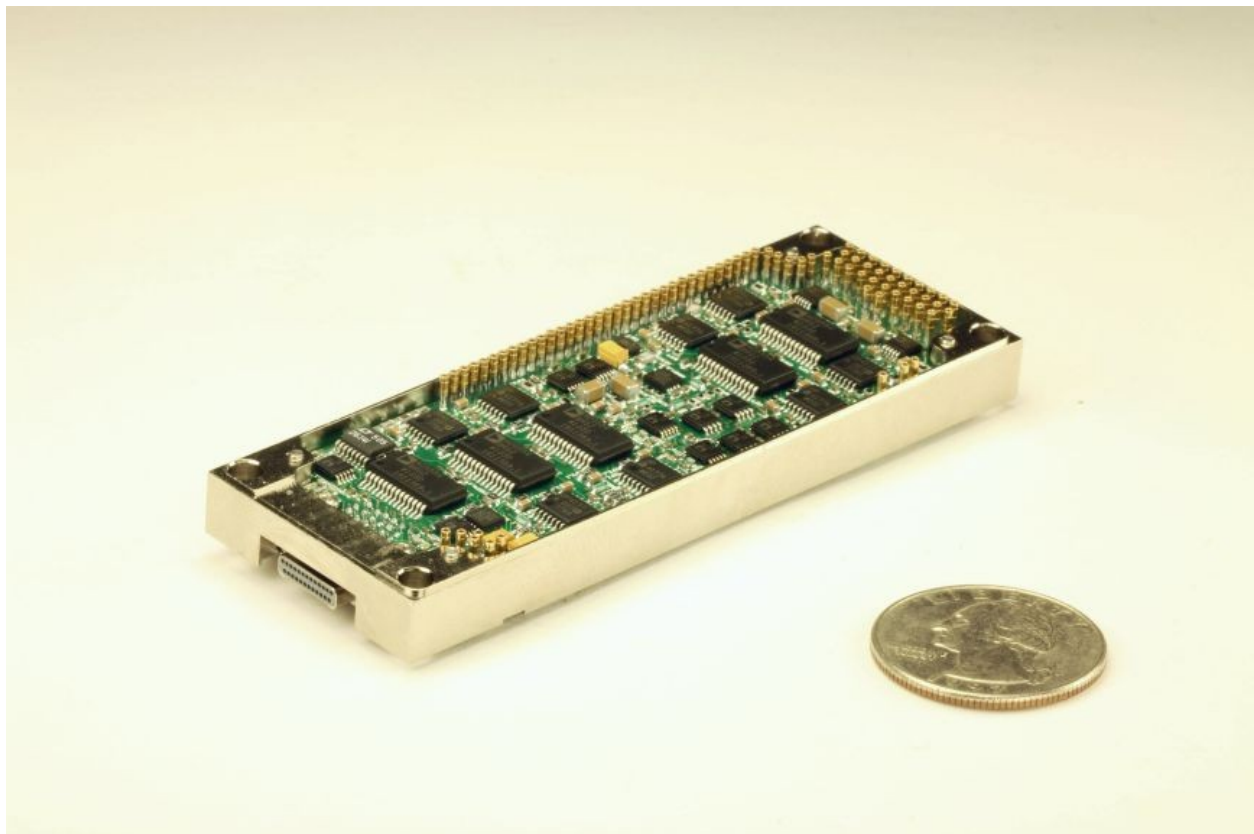
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## **MICRO PCM ENCODER SERIES**

### **MODEL MI\_SG\_ADD8**

### **8 CHANNEL SIGNAL CONDITIONING ADD ON MODULE**

The MI\_SG\_ADD8 module was designed to be used with the 4 Channel module, MI\_SG4. This increases the number of programmable signal conditioning channels to 12. The MI\_SG\_ADD8 add on module “MUST STACK ON TOP” of the MI\_SG4 module. Each channel has its own ADC.



## **Electrical Specifications:**

### **Analog Inputs:**

8 Differential Inputs with full signal conditioning, programmable simultaneous sampling.

Gain: High resolution programmable with >16,000 possible gains from 0.5 to 5,000.

Offset: High resolution programmable with >8,000 offsets from -4.5V to +4.5V.

Anti Aliasing Filters: High resolution programmable 4 pole Butterworth with >8,000 cutoff frequencies from 3 Hz to 20 kHz.

Allowable input signal levels on either input from -5V to + 5V.

Maximum Input  $\pm$  40 volts will not damage any analog input.

Input Impedance: 1.0 Gig ohm (Power On)

System Gain Accuracy:  $\pm$ 0.2% maximum over the operating temperature range.

A/D: 1 per channel, 16 Bits, 0 + 5.0 Volts, DC to 1 Mega samples per second.

### **Environmental:**

Operating Temperature:	-40°C to +85°C
Storage Temperature:	-55°C to +125°C
Humidity:	Relative humidity of 85% for two hours at 65°C.
Altitude:	Unlimited
Vibration:	20g's RMS from 5 to 2000Hz in each major axis.
Acceleration:	Constant acceleration of 100g's in each axis.
Shock:	100g's for 10m second in each major axis.

### **Mechanical:**

Size:		
	inches	mm
Length	3.50	88.9
Width	1.25	31.75
Height	0.291	7.39
Weight:	26 g	
Engraving:	MI_SG4	

## MI\_SG\_ADD8 PINOUT

J1 CONNECTOR : AIRBORN, NK-2E2-025-325-TH00

MATE: AIRBORN, NM-222-025-261-JCAC

<u>PIN</u>	<u>FUNCTION</u>
3	IN5+
1	IN5-
2	AGND
16	IN6+
15	IN6-
14	AGND
7	IN7+
5	IN7-
4	AGND
18	IN8+
17	IN8-
6	AGND
20	IN9+
19	IN9-
8	AGND
22	IN10+
21	IN10-
10	AGND
13	IN11+
11	IN11-
12	AGND
25	IN12+
23	IN12-
24	AGND
9	NC