QUAD TRON, INC.

303 Camars Drive
Warminster, PA 18974

Phone: (215) 441-9303
Fax: (215) 441-9305
www.quadtron.com
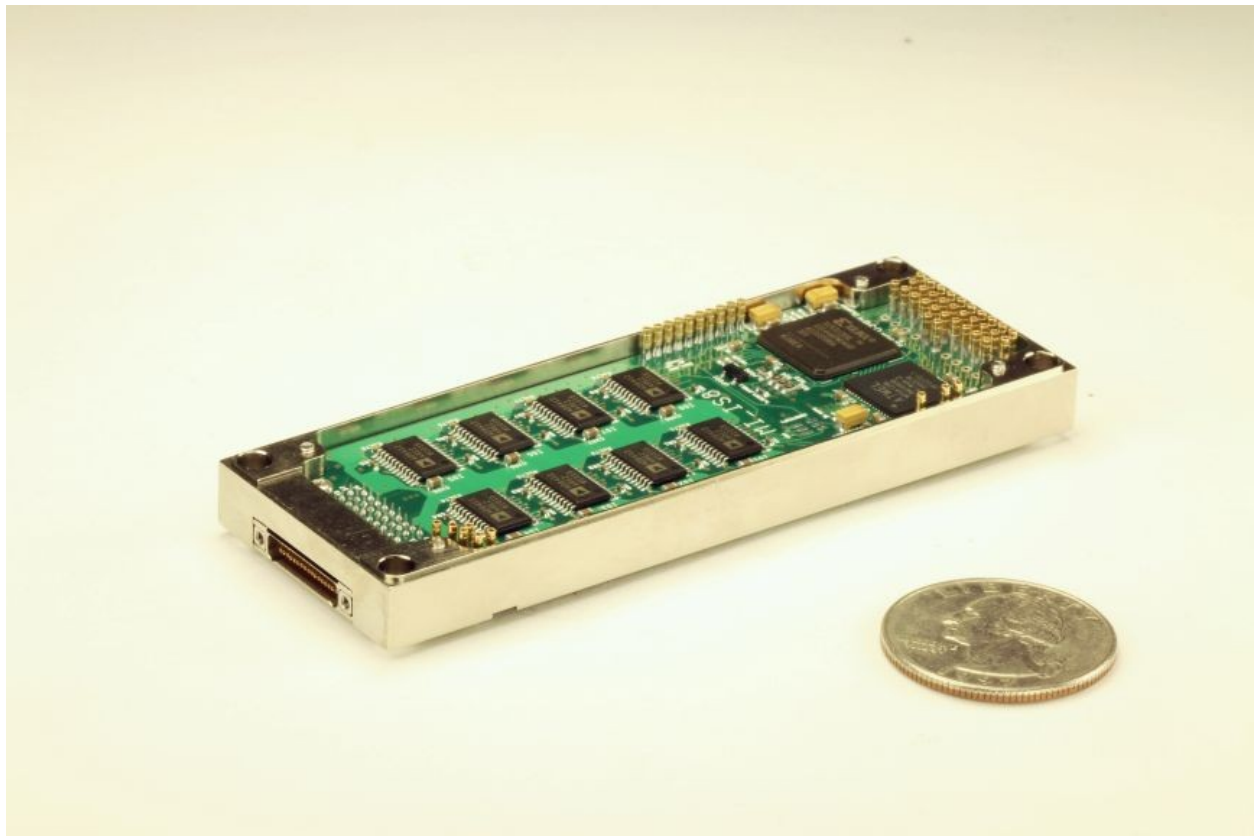Email: quadtron.inc@gmail.com

MICRO PCM ENCODER SERIES

MODEL MI_IS8

8 CHANNEL CURRENT SOURCE MODULE

The MI_IS8 Module provides 8 current sources for transducers that require current type excitation. Each of the 8 current sources are hi resolution, independently programmable, 0 to 20 milli amp output. The MI_IS_ADD12 module can be placed on top to increase the number of current sources to 20.

Electrical Specifications:

Current Sources:

Current Source Power: Power to the current sources is input at the front connector. Current source compliance voltage is up to power input voltage minus 2.5 volts. The power input voltage can range from 10.8 volts to 40 volts. For example if the 8 current sources are powered by 28 volts, then all 8 current sources can have independent compliance voltages from 0 up to 25.5 volts.

Current Source Programmability: 4096 possible settings from 0 to 20 milli amps.

Current Source Accuracy: +-0.01% FSR typical error.

Current Source Temperature Accuracy: +- 3 ppm/degree C output drift

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_IS8

MI_IS8 PINOUT:

J1 CONNECTOR :   AIRBORN, NK-2F2-037-435-TH00

   MATE: AIRBORN, NM-212-037-161-JCAC

PIN	FUNCTION	PIN	FUNCTION
3	IS1	4	IS2
1	IS1_AC	2	IS2_AC
5	AGND	6	IS_PWR
23	IS3	22	IS4
21	IS3_AC	20	IS4_AC
25	AGND	24	IS_PWR
19	IS5	18	IS6
17	IS5_AC	16	IS6_AC
15	AGND	14	IS_PWR
37	IS7	36	IS8
35	IS7_AC	34	IS8_AC
33	AGND	32	IS_PWR
9	DGND		
10	STP2		
11	STP1		
12	STP0		
31	TCK_ATMEL1	27	TMS_PROM
30	TDI_ATMEL1	26	TDO_PROM
29	TMS_ATMEL1	7	TDI_PROM
28	TDO_ATMEL1	8	TCK_PROM
13	RESET_ATMEL1_N		

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