

# QUAD TRON, INC.

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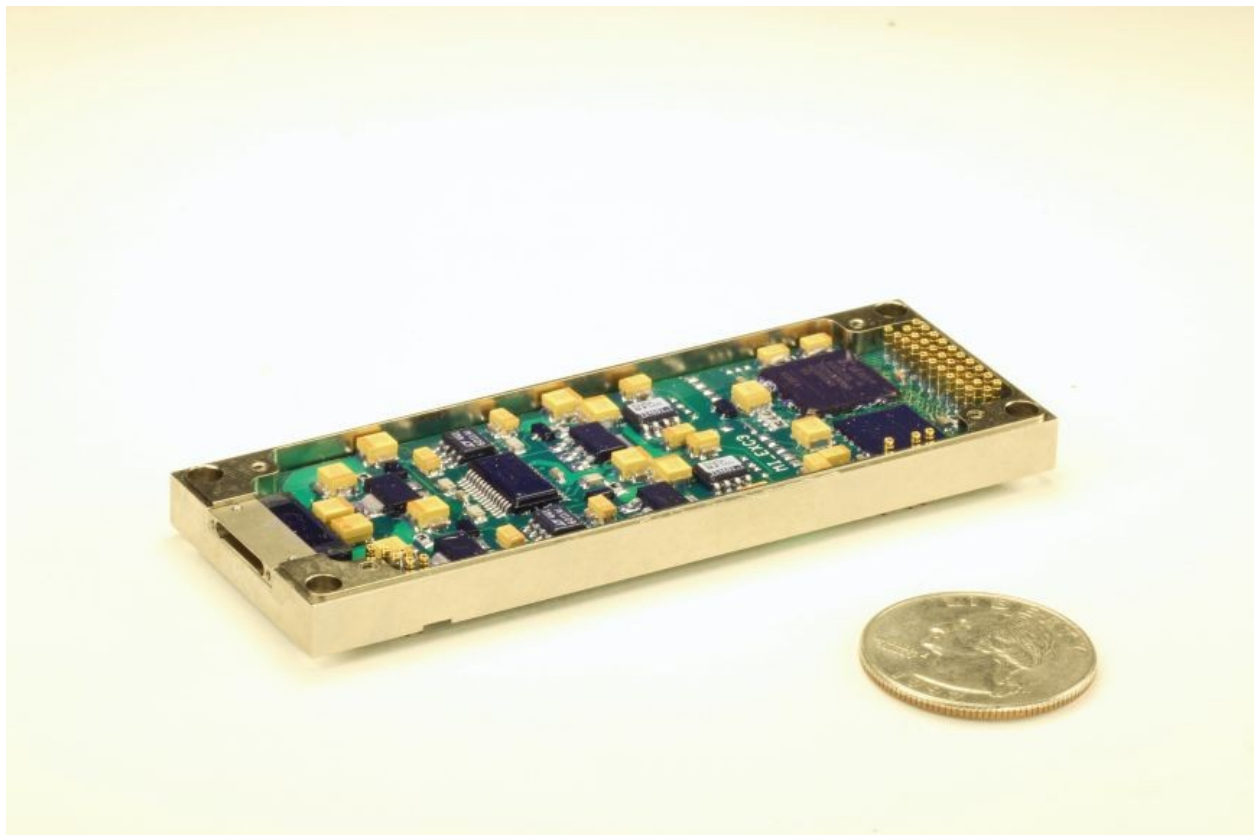
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## MICRO PCM ENCODER SERIES

### MODEL MI\_EXC3

## TWO (2) CHANNEL VOLTAGE EXCITATION MODULE

The 2-channel independently programmable voltage excitation (>100 mA per channel) module provides 2 programmable excitation voltages for full bridge completion of 1 to 3 arm bridge completion. The unit provides independent programmable high resolution voltage steps from 0Vdc to  $\pm 5.0$  Vdc (0V to 10V excitation.) The channels are programmed via the PCM base unit with Windows based software– Single Point Programming.



### **Electrical Specifications:**

Dual Bridge Voltage Excitation Provided:

Each bipolar programmable with independent programmable high resolution voltage steps from 0 Vdc to  $\pm 5.0$  Vdc (0V to 10V excitation).

More than 15,000 steps provided from 0V to 10V.

Excitation Accuracy:  $\pm 0.05\%$ , -40 degree C to +85 degree C.

Excitation: Bipolar.

### **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, 2 Channel Voltage Excitation Module:

	inches	mm
Length	3.50	88.9
Width	1.25	31.75
Height	0.240	6.1

Weight: 24 g

**Engraving:** MI\_EXC3

### **Connecting Module Straps:**

The module address is programmed via three straps at the connector. They are STP0 ( pin 8 ), STP1 ( pin 9 ) and STP2 ( pin 10 ). Valid modules addresses are 1 through 7. The base unit defaults to module address 0. All three straps are pulled high. To obtain a binary 1, leave unconnected. Connect to DGND ( pin 11 ) to obtain a binary 0. STP0 is the least significant bit. Avoid module address conflicts by assigning a unique module address to each module attached to a base unit.

## **J1 pin connections**

	Connector P.N.:	Nanonics # SSM015M6HN; TYCO # 2-1589469-5
	Mate P.N.:	Nanonics # SSM015PC2DC024N; TYCO # 9-1589455-3
1	EXC_OUT1+	Bipolar Excitation +, Channel 1
2	EXC_OUT1+	Bipolar Excitation +, Channel 1
3	EXC_OUT1-	Bipolar Excitation -, Channel 1
4	EXC_OUT1-	Bipolar Excitation -, Channel 1
5	AGND	Analog Ground
6	AGND	Analog Ground
7	STP0	Strapping Pins For Card Address, Pulled High. Connect To DGND For Binary 0.
8	STP1	Strapping Pins For Card Address, Pulled High. Connect To DGND For Binary 0.
9	STP2	Strapping Pins For Card Address, Pulled High. Connect To DGND For Binary 0.
10	DGND	Digital Ground
11	AGND	Analog Ground
12	EXC_OUT2-	Bipolar Excitation -, Channel 2
13	EXC_OUT2-	Bipolar Excitation -, Channel 2
14	EXC_OUT2+	Bipolar Excitation +, Channel 2
15	EXC_OUT2+	Bipolar Excitation +, Channel 2