

QUAD TRON, INC.

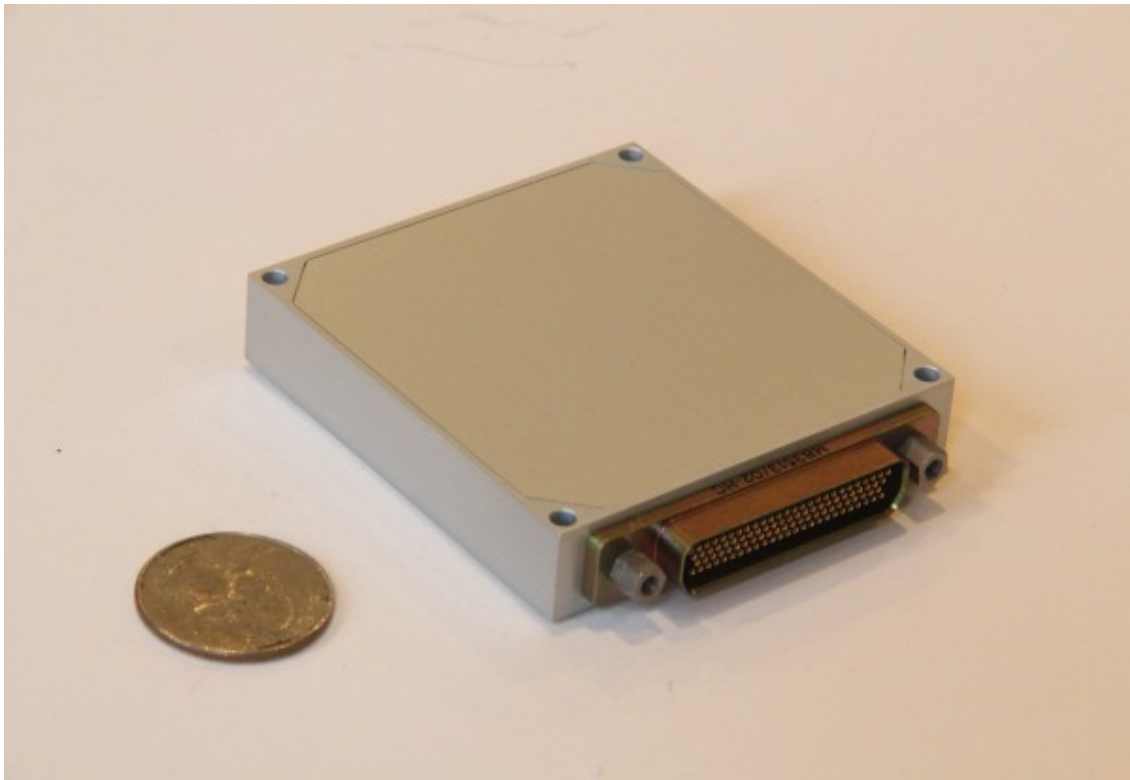
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64 CHANNEL ANALOG MULTIPLEXER WITH AMPLIFIER OUTPUT

MODEL MUX64

The model MUX64 is a 64 channel single ended (or 32 differential channel) analog multiplexer with an output amplifier to provide high input impedance, low output impedance, high switching speed and high slew rate. The amplified and non amplified outputs are available.



- *64 Single Ended or 32 Differential Channels.*
- *±10 Volt input signal range.*
- *Standard CMOS/TTL channel select inputs (Consult factory for Windows/PC COM port channel selection or PC loaded sample plan capability) .*
- *High Speed Switching: Settles to 0.1% of full scale within 1 micro second.*
- *Channel Bandwidth: DC to 1 MHZ.*
- *Over and under voltage protection of ±40 Volts on each analog input.*
- *Amplifier output, gain from 0.5 to 1000 (factory set).*
- *Small size.*

Electrical Specifications:

Power Supply: ±8 to ±18 volt supply, < 15milli amp,
or isolated +5 volt to +40 volt, <. 0.25 watt.

Channel Separation: 70dB minimum.

Allowable input signal levels on either input from -10V to +10V.

Maximum Input ± 40 volts will not damage any analog input.

Input Impedance: >100 Mohms < 10 pf

Channel Separation: 70dB minimum.

Slew Rate: 15 volt per micro 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	2.6	66.04
Width	2.5	63.5
Height	0.45	11.43
Weight:	1.9 OZ	

MUX64 PINOUT:

J1: MDM-100S, Mate: MDM-100P

<u>PIN</u>	<u>SIGNAL</u>	<u>PIN</u>	<u>SIGNAL</u>
1	IN 1	51	IN 60
2	IN 2	52	IN 33
3	IN 3	58	IN 34
4	IN 4	54	IN 35
5	AGND	55	IN 36
6	IN 9	56	AGND
7	IN 10	57	CHASIS GND
5	IN 11	58	S0
9	IN 12	59	S1
10	IN 13	60	S2
11	IN 14	61	S3
12	IN 15	62	S4
13	IN 16	63	S5
14	IN 17	64	N/C
15	IN 16	65	N/C
16	IN 19	66	15V
17	IN 20	67	PWR RTN
18	IN 21	68	-15V
19	IN 22	69	N/C
20	IN 23	70	IN 56
21	IN 24	71	AGND
22	AGND	72	IN 29
23	IN 61	73	IN 30
24	IN 62	74	IN 31
25	IN 63	75	IN 32
26	IN 64	76	IN 37
27	IN 5	77	IN 36
28	IN 6	78	IN 39
29	IN 7	79	IN 40
30	IN 8	80	AGND
31	AGND	81	AGND
32	IN 41	82	AGND
33	IN 42	83	AGND
34	IN 43	84	AGND
35	IN 44	85	N/C
36	IN 45	86	N/C
37	IN 46	87	N/C
38	IN 47	86	OUT RTN
39	IN 48	89	OUT PROTECTED
40	IN 49	90	OUT
41	IN 50	91	OUT NOT AMPLIFIED
42	IN 51	92	AGND
43	IN 52	93	AGND
44	IN 53	94	AGND
45	IN 54	95	AGND
46	IN 55	96	AGND
47	AGND	97	IN 25
48	IN 57	98	IN 26
49	IN 58	99	IN 27
50	IN 59	100	IN 28

