



Application Note #5471

IOM-1964 Revision A+B and Revision C Connections

The IOM-1964 was recently revised, and now uses slightly different screw terminals.

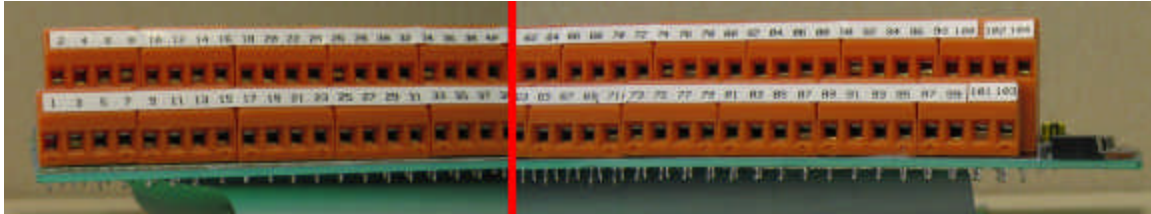


Figure 1- Rev A+B Orientation



Figure 2- Rev C Orientation

Because of this, the white numeric labels on the bottom row terminals have been shifted by two. The PCB silkscreen remains the same.

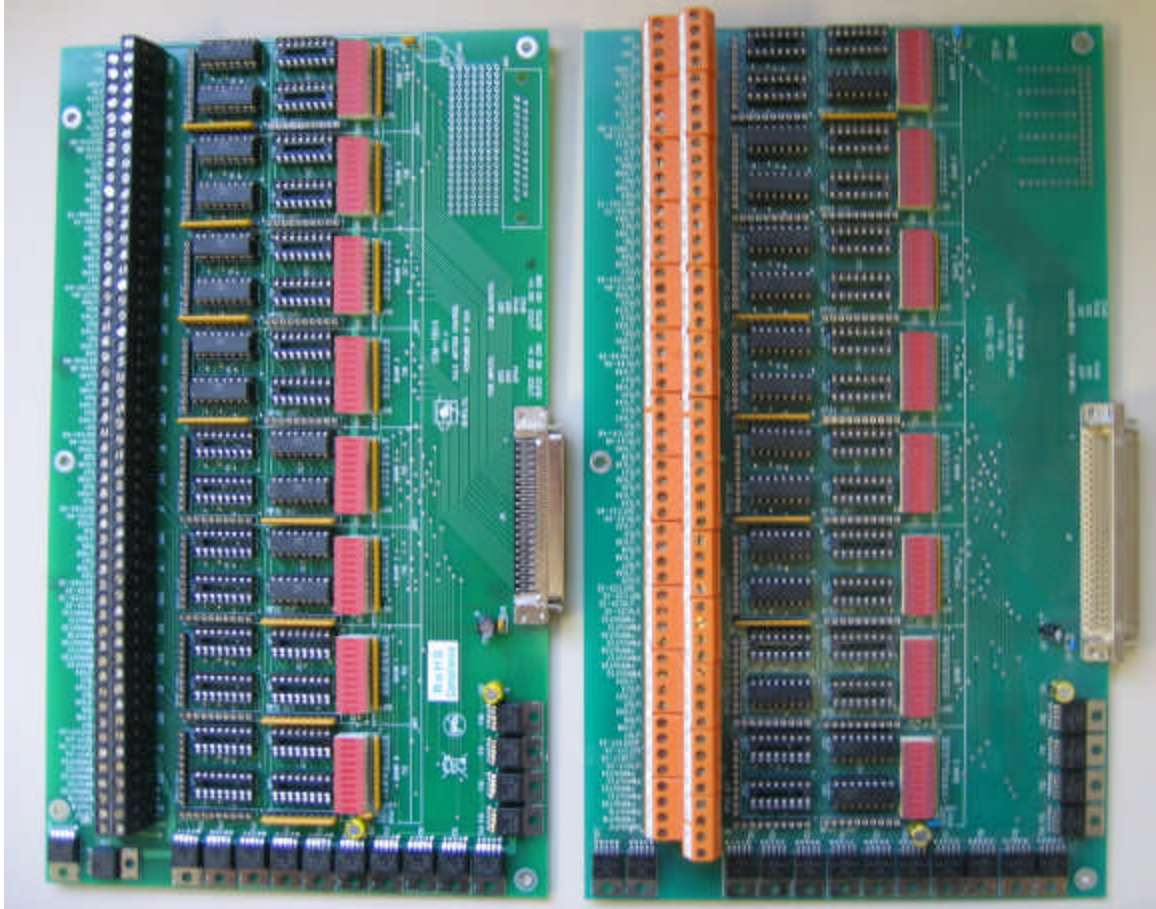


Fig. 3- New (left) and Old (right) IOM-1964

The pinouts as listed in the Optima-series User Manual may not reflect these changes.

Rev A+B boards (orange) and Rev C boards (black) have the pinouts listed below

REV A+B TERMINAL #	REV C TERMINAL #	LABEL	DESCRIPTION	BANK
1		GND	Ground	N/A
2	2	5V	5V DC out	N/A
3	1	GND	Ground	N/A
4	4	5V	5V DC out	N/A
5	3	I/O80	I/O bit 80	7
6	6	I/O79	I/O bit 79	7
7	5	I/O78	I/O bit 78	7
8	8	I/O77	I/O bit 77	7
9	7	I/O76	I/O bit 76	7
10	10	I/O75	I/O bit 75	7
11	9	I/O74	I/O bit 74	7
12	12	I/O73	I/O bit 73	7
13	11	OUTC73-80	Out common for I/O 73-80	7
14	14	I/OC73-80	I/O common for I/O 73-80	7
15	13	I/O72	I/O bit 72	6
16	16	I/O71	I/O bit 71	6
17	15	I/O70	I/O bit 70	6
18	18	I/O69	I/O bit 69	6
19	17	I/O68	I/O bit 68	6
20	20	I/O67	I/O bit 67	6
21	19	I/O66	I/O bit 66	6
22	22	I/O65	I/O bit 65	6
23	21	OUTC65-72	Out common for I/O 65-72	6
24	24	I/OC65-72	I/O common for I/O 65-72	6
25	23	I/O64	I/O bit 64	5
26	26	I/O63	I/O bit 63	5
27	25	I/O62	I/O bit 62	5
28	28	I/O61	I/O bit 61	5
29	27	I/O60	I/O bit 60	5
30	30	I/O59	I/O bit 59	5
31	29	I/O58	I/O bit 58	5
32	32	I/O57	I/O bit 57	5
33	31	OUTC57-64	Out common for I/O 57-64	5
34	34	I/OC57-64	I/O common for I/O 57-64	5
35	33	I/O56	I/O bit 56	4
36	36	I/O55	I/O bit 55	4
37	35	I/O54	I/O bit 54	4
38	38	I/O53	I/O bit 53	4
39	37	I/O52	I/O bit 52	4
40	40	I/O51	I/O bit 51	4
41	39	I/O50	I/O bit 50	4

REV A+B TERMINAL #	REV C TERMINAL #	LABEL	DESCRIPTION	BANK
42	42	I/O49	I/O bit 49	4
43	41	OUTC49-56	Out common for I/O 49-56	4
44	44	I/OC49-56	I/O common for I/O 49-56	4
45	43	I/O48	I/O bit 48	3
46	46	I/O47	I/O bit 47	3
47	45	I/O46	I/O bit 46	3
48	48	I/O45	I/O bit 45	3
49	47	I/O44	I/O bit 44	3
50	50	I/O43	I/O bit 43	3
51	49	I/O42	I/O bit 42	3
52	52	I/O41	I/O bit 41	3
53	51	OUTC41-48	Out common for I/O 41-48	3
54	54	I/OC41-48	I/O common for I/O 41-48	3
55	53	I/O40	I/O bit 40	2
56	56	I/O39	I/O bit 39	2
57	55	I/O38	I/O bit 38	2
58	58	I/O37	I/O bit 37	2
59	57	I/O36	I/O bit 36	2
60	60	I/O35	I/O bit 35	2
61	59	I/O34	I/O bit 34	2
62	62	I/O33	I/O bit 33	2
63	61	OUTC33-40	Out common for I/O 33-40	2
64	64	I/OC33-40	I/O common for I/O 33-40	2
65	63	I/O32	I/O bit 32	1
66	66	I/O31	I/O bit 31	1
67	65	I/O30	I/O bit 30	1
68	68	I/O29	I/O bit 29	1
69	67	I/O28	I/O bit 28	1
70	70	I/O27	I/O bit 27	1
71	69	I/O26	I/O bit 26	1
72	72	I/O25	I/O bit 25	1
73	71	OUTC25-32	Out common for I/O 25-32	1
74	74	I/OC25-32	I/O common for I/O 25-32	1
75	73	OUTC25-32	Out common for I/O 25-32	1
76	76	I/OC25-32	I/O common for I/O 25-32	1
77	75	PWROUT32	Power output 32	1
78	78	PWROUT31	Power output 31	1
79	77	PWROUT30	Power output 30	1
80	80	PWROUT29	Power output 29	1
81	79	PWROUT28	Power output 28	1
82	82	PWROUT27	Power output 27	1

REV A+B TERMINAL #	REV C TERMINAL #	LABEL	DESCRIPTION	BANK
83	81	PWROUT26	Power output 26	1
84	84	PWROUT25	Power output 25	1
85	83	I/O24	I/O bit 24	0
86	86	I/O23	I/O bit 23	0
87	85	I/O22	I/O bit 22	0
88	88	I/O21	I/O bit 21	0
89	87	I/O20	I/O bit 20	0
90	90	I/O19	I/O bit 19	0
91	89	I/O18	I/O bit 18	0
92	92	I/O17	I/O bit 17	0
93	91	OUTC17-24	Out common for I/O 17-24	0
94	94	I/OC17-24	I/O common for I/O 17-24	0
95	93	OUTC17-24	Out common for I/O 17-24	0
96	96	I/OC17-24	I/O common for I/O 17-24	0
97	95	PWROUT24	Power output 24	0
98	98	PWROUT23	Power output 23	0
99	97	PWROUT22	Power output 22	0
100	100	PWROUT21	Power output 21	0
101	99	PWROUT20	Power output 20	0
102	102	PWROUT19	Power output 19	0
103	101	PWROUT18	Power output 18	0
104	104	PWROUT17	Power output 17	0
	103	GND	Ground	