

NOTE TO USERS

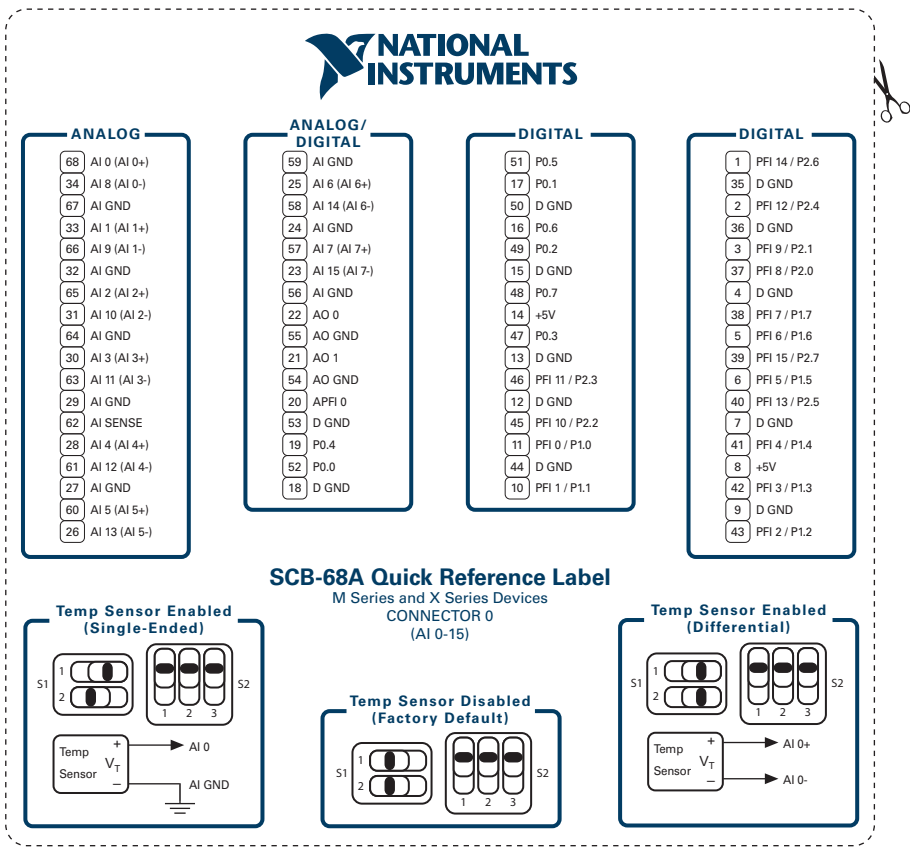
NI 62xx/63xx Pinout Labels for the SCB-68A

Multifunction I/O M/X Series Modules/Devices Using the 68-Pin Shielded Connector Block

If you are using an NI 62xx (formerly referred to as M Series) or NI 63xx (formerly referred to as X Series) multifunction I/O device or module with the SCB-68A, you can attach a connector-specific pinout label to the cover of the connector block for easy connection reference. This document provides labels for the following models:

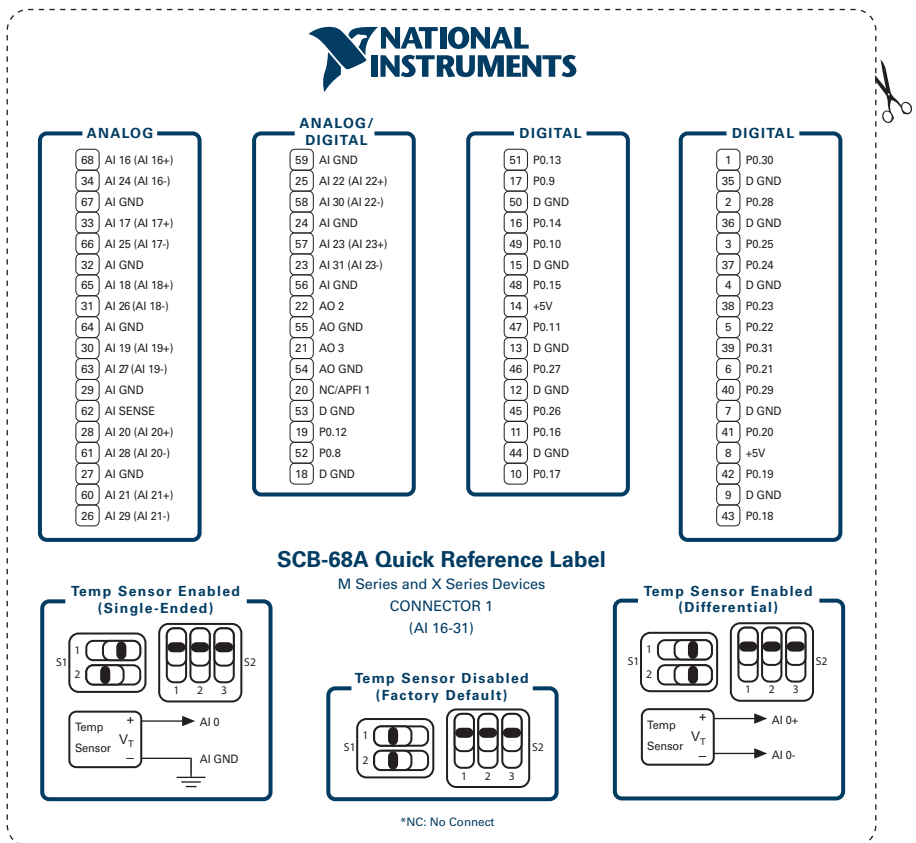
- NI 6220/6221/6224/6225/6229
- NI 6250/6251/6254/6255/6259
- NI 6280/6281/6284/6289
- NI 6320/6321/6323
- NI 6341/6343/6345
- NI 6351/6353/6355/6356/6358
- NI 6361/6363/6365/6366/6368
- NI 6375/6376/6378

Figure 1. SCB-68A Default Pinout Label: NI 62xx/63xx Connector 0




Use the following label if you are connecting the SCB-68A to Connector 1 of the NI 6224/6229/6254/6259/6284/6289 and NI 6323/6343/6353/6358/6363/6368/6378 models.

Figure 2. NI 62xx/63xx Connector 1



Use the following label if you are connecting the SCB-68A to Connector 1 of models that feature extended AI functionality, such as the NI 6225/6255 and NI 6345/6355/6365/6375.

Figure 3. NI 6225/6255/6345/6355/6365/6375 Connector 1



ANALOG

68	AI 16 (AI 16+)
34	AI 24 (AI 16-)
67	AI 25 (AI 17-)
33	AI 17 (AI 17+)
66	AI 26 (AI 18-)
32	AI 18 (AI 18+)
65	AI 19 (AI 19+)
31	AI 27 (AI 19-)
64	AI 28 (AI 20-)
30	AI 20 (AI 20+)
63	AI 29 (AI 21-)
29	AI 21 (AI 21+)
62	AI 22 (AI 22+)
28	AI 30 (AI 22-)
61	AI 31 (AI 23-)
27	AI 23 (AI 23+)
60	AI 40 (AI 32-)
26	AI 32 (AI 32+)

ANALOG

59	AI 33 (AI 33+)
25	AI 41 (AI 33-)
58	AI 42 (AI 34-)
24	AI 34 (AI 34+)
57	AI 43 (AI 35-)
23	AI 35 (AI 35+)
56	AI SENSE 2
22	AI GND
55	AI 36 (AI 36+)
21	AI 44 (AI 36-)
54	AI 45 (AI 37-)
20	AI 37 (AI 37+)
53	AI 46 (AI 38-)
19	AI 38 (AI 38+)
52	AI 39 (AI 39+)
18	AI 47 (AI 39-)

ANALOG


51	AI 56 (AI 48-)
17	AI 48 (AI 48+)
50	AI 57 (AI 49-)
16	AI 49 (AI 49+)
49	AI 50 (AI 50+)
15	AI 58 (AI 50-)
48	AI 59 (AI 51-)
14	AI 51 (AI 51+)
47	AI 60 (AI 52-)
13	AI 52 (AI 52+)
46	AI 53 (AI 53+)
12	AI 61 (AI 53-)
45	AI 62 (AI 54-)
11	AI 54 (AI 54+)
44	AI 63 (AI 55-)
10	AI 55 (AI 55+)

ANALOG

1	AI 71 (AI 71+)
35	AI 79 (AI 71-)
2	AI 78 (AI 70-)
36	AI 70 (AI 70+)
3	AI 69 (AI 69+)
37	AI 77 (AI 69-)
4	AI 68 (AI 68+)
38	AI 76 (AI 68-)
5	AI 75 (AI 67-)
39	AI 67 (AI 67+)
6	AI 66 (AI 66+)
40	AI 74 (AI 66-)
7	AI 65 (AI 65+)
41	AI 73 (AI 65-)
8	AI 72 (AI 64-)
42	AI 64 (AI 64+)
9	AI GND
43	AI GND


SCB-68A Quick Reference Label
 NI 6225/6255 and NI 6345/6355/6365/6375 Devices
 CONNECTOR 1
 (AI 16-79)

Direct Feedthrough



Use the following label if you are connecting the SCB-68A to Connector 2 of models that feature extended AI functionality, such as the NI 6365/6375.

Figure 4. NI 6365/6375 Connector 2



ANALOG

68	AI 80 (AI 80+)
34	AI 88 (AI 80-)
67	AI 89 (AI 81-)
33	AI 81 (AI 81+)
66	AI 90 (AI 82-)
32	AI 82 (AI 82+)
65	AI 83 (AI 83+)
31	AI 91 (AI 83-)
64	AI 92 (AI 84-)
30	AI 84 (AI 84+)
83	AI 93 (AI 85-)
29	AI 85 (AI 85+)
62	AI 86 (AI 86+)
28	AI 94 (AI 86-)
61	AI 95 (AI 87-)
27	AI 87 (AI 87+)
60	AI 104 (AI 96-)
26	AI 96 (AI 96+)

ANALOG

59	AI 97 (AI 97+)
25	AI 105 (AI 97-)
58	AI 106 (AI 98-)
24	AI 98 (AI 98+)
57	AI 107 (AI 99-)
23	AI 99 (AI 99+)
56	AI SENSE 3
22	AI GND
55	AI 100 (AI 100+)
21	AI 108 (AI 100-)
54	AI 109 (AI 101-)
20	AI 101 (AI 101+)
53	AI 110 (AI 102-)
19	AI 102 (AI 102+)
52	AI 103 (AI 103+)
18	AI 111 (AI 103-)

ANALOG

51	AI 120 (AI 112-)
17	AI 112 (AI 112+)
50	AI 121 (AI 113-)
16	AI 113 (AI 113+)
49	AI 114 (AI 114+)
15	AI 122 (AI 114-)
48	AI 123 (AI 115-)
14	AI 115 (AI 115+)
47	AI 124 (AI 116-)
13	AI 116 (AI 116+)
46	AI 117 (AI 117+)
12	AI 125 (AI 117-)
45	AI 126 (AI 118-)
11	AI 118 (AI 118+)
44	AI 127 (AI 119-)
10	AI 119 (AI 119+)

ANALOG

1	AI 135 (AI 135+)
35	AI 143 (AI 135-)
2	AI 142 (AI 134-)
36	AI 134 (AI 134+)
3	AI 133 (AI 133+)
37	AI 141 (AI 133-)
4	AI 132 (AI 132+)
38	AI 140 (AI 132-)
5	AI 139 (AI 131-)
39	AI 131 (AI 131+)
6	AI 130 (AI 130+)
40	AI 138 (AI 130-)
7	AI 129 (AI 129+)
41	AI 137 (AI 129-)
8	AI 136 (AI 128-)
42	AI 128 (AI 128+)
9	AI GND
43	AI GND

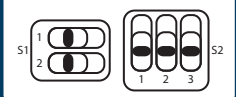
SCB-68A Quick Reference Label

NI 6365/6375 Devices

CONNECTOR 2

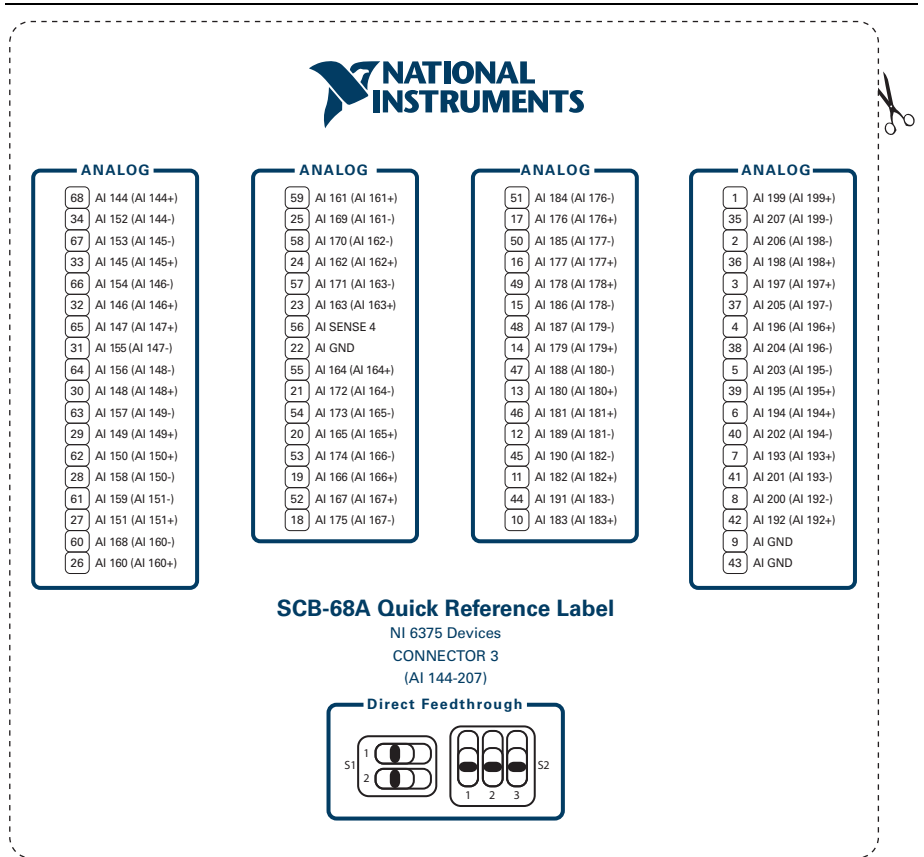
(AI 80-143)

Direct Feedthrough



Use the following label if you are connecting the SCB-68A to Connector 3 of models that feature extended AI functionality, such as the NI 6375.

Figure 5. NI 6375 Connector 3



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