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**PCIe-6251**

## NOTE TO USERS

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

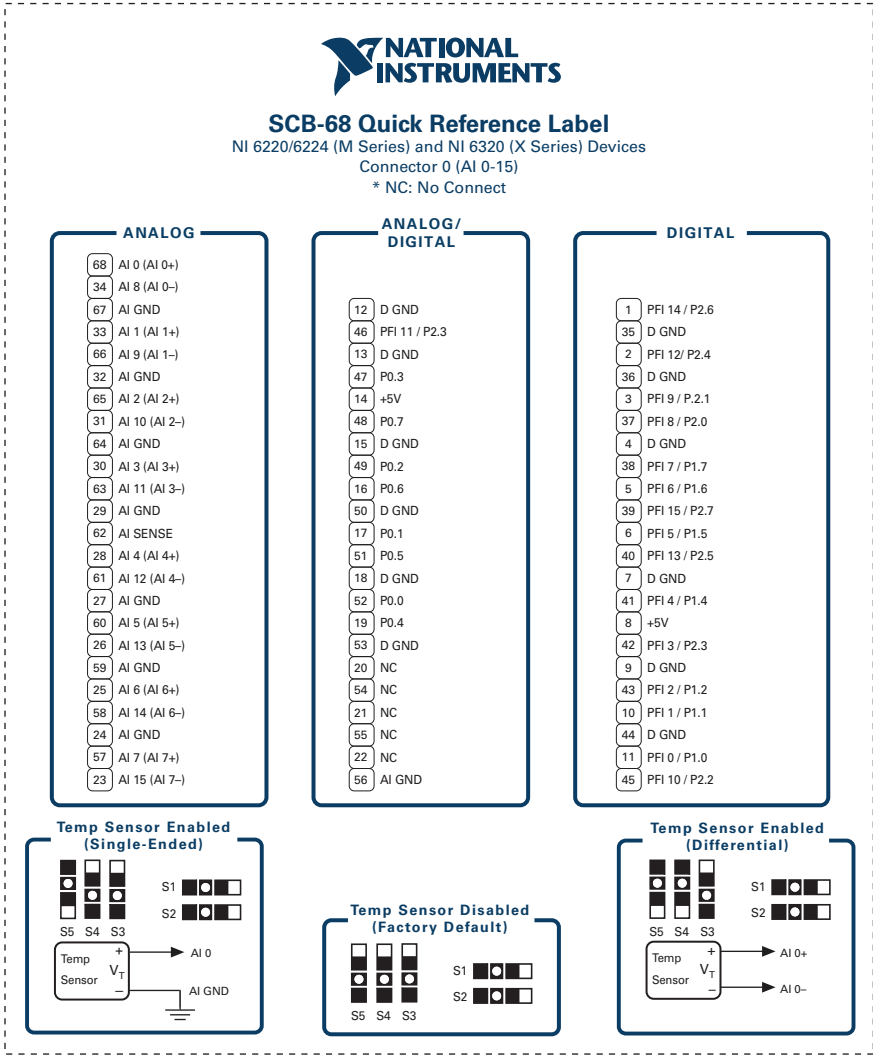
## Multifunction I/O M/X Series Modules/Devices Using the 68-Pin Shielded Connector Block

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-68, 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	NI 6320	NI 6356
NI 6221	NI 6321	NI 6358
NI 6224	NI 6323	NI 6366
NI 6225	NI 6341	NI 6368
NI 6229	NI 6343	NI 6374
NI 6250	NI 6345	NI 6376
NI 6251	NI 6351	NI 6378
NI 6254	NI 6353	
NI 6255	NI 6355	
NI 6259	NI 6361	
NI 6280	NI 6363	
NI 6281	NI 6365	
NI 6284	NI 6375	
NI 6289		

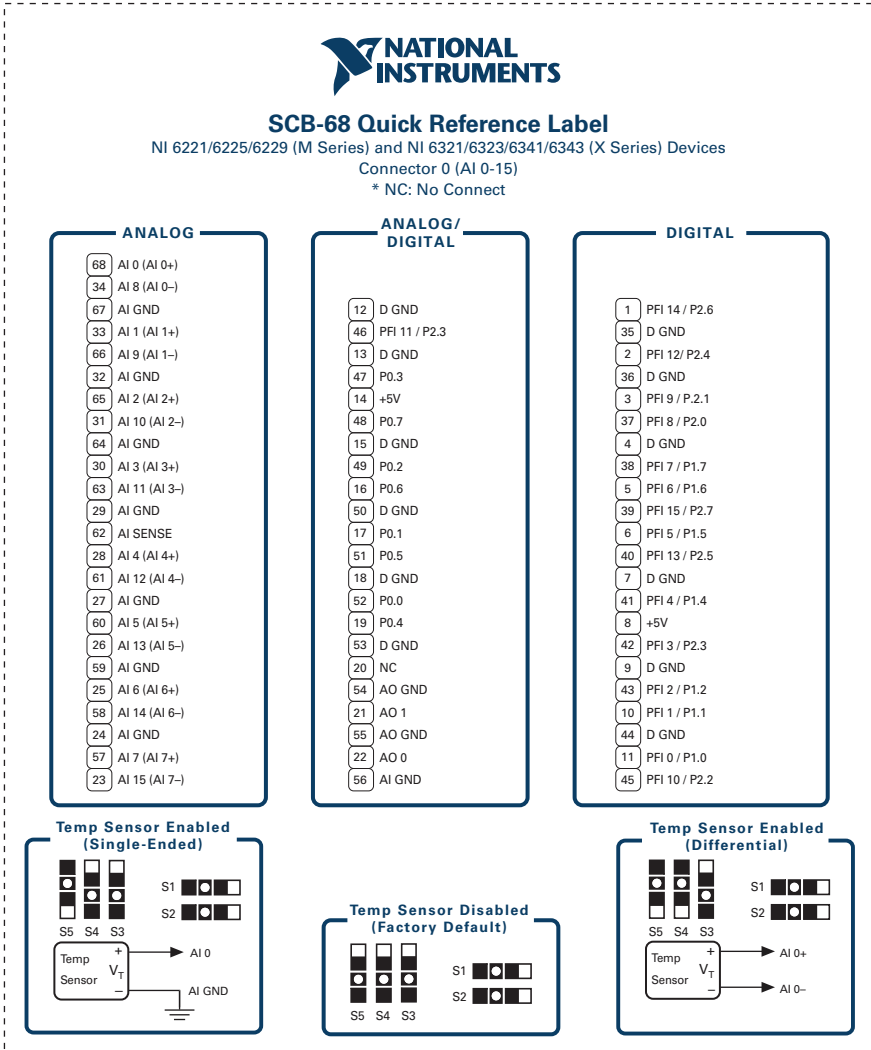
Use the following label if you are connecting the SCB-68 to Connector 0 of NI 6220/6224 and NI 6320 models.

**Figure 1. NI 6220/6224 and NI 6320 Connector 0**



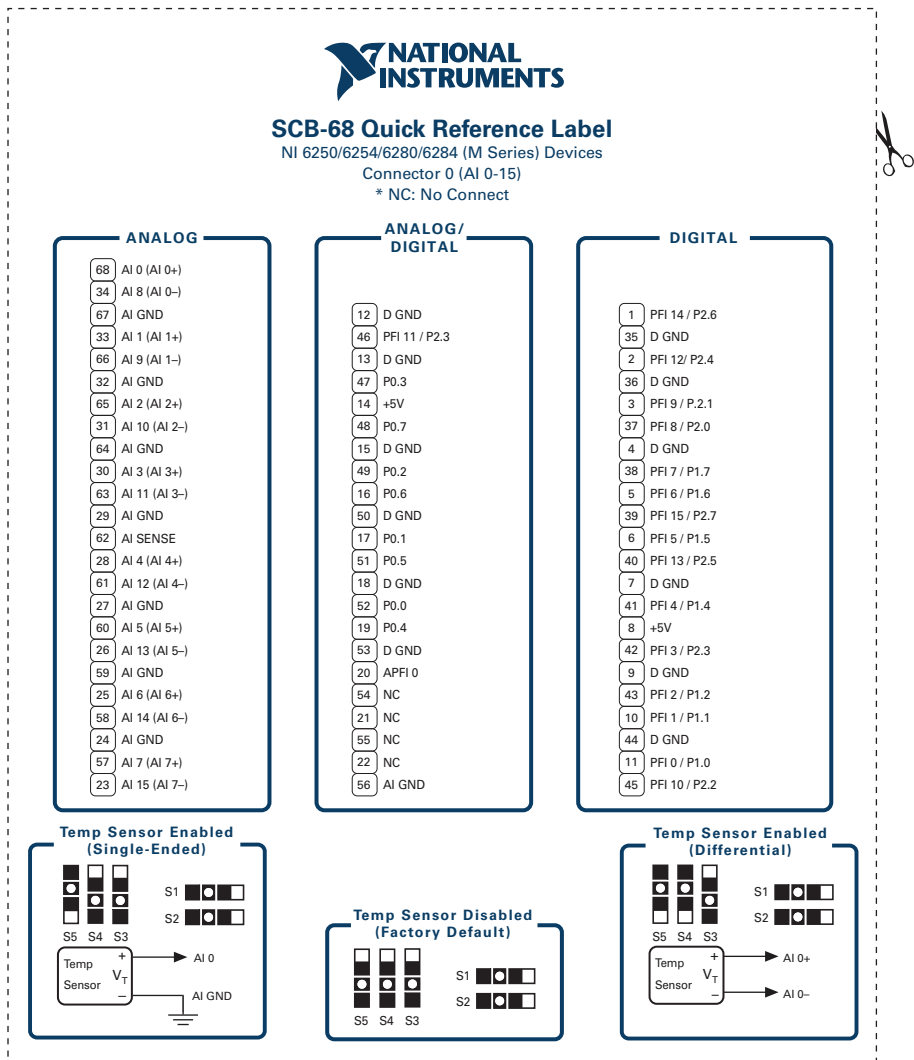
Use the following label if you are connecting the SCB-68 to Connector 0 of NI 6221/6225/6229 and NI 6321/6341/6343 models.

**Figure 2.** NI 6221/6225/6229 and NI 6321/6341/6343 Connector 0



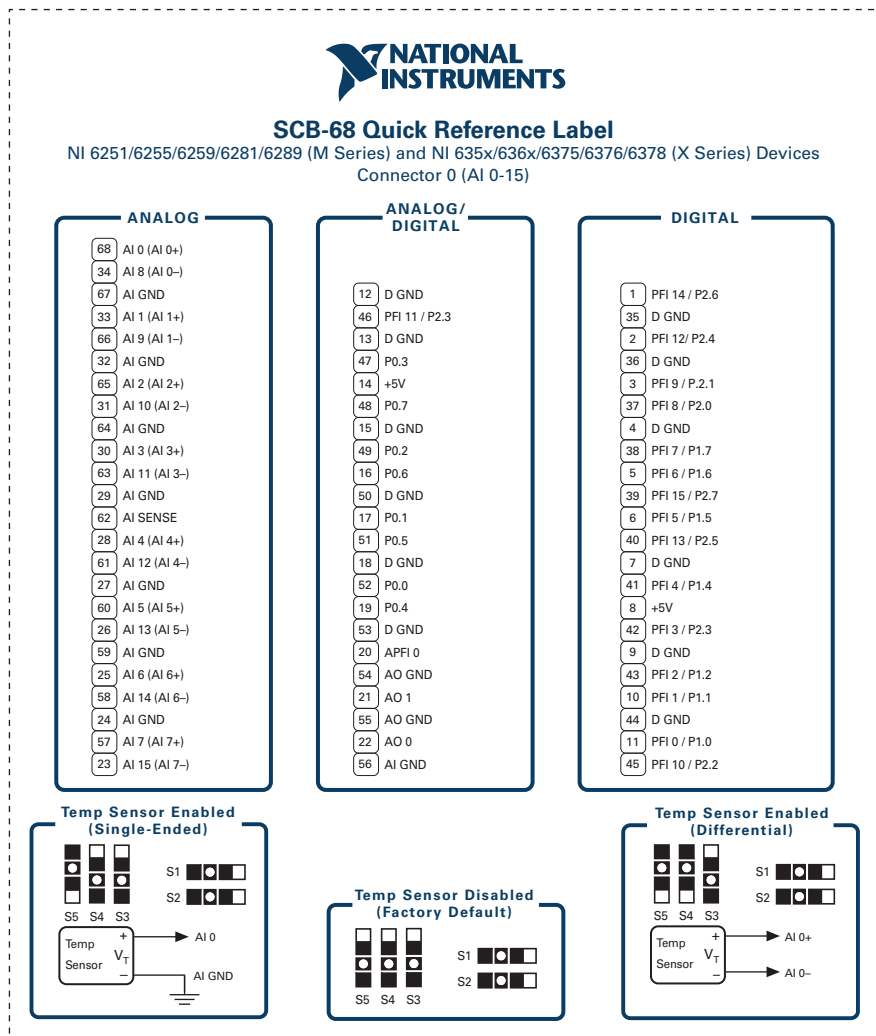
Use the following label if you are connecting the SCB-68 to Connector 0 of NI 6250/6254/6280/6284 models.

**Figure 3. NI 6250/6254/6280/6284 Connector 0**



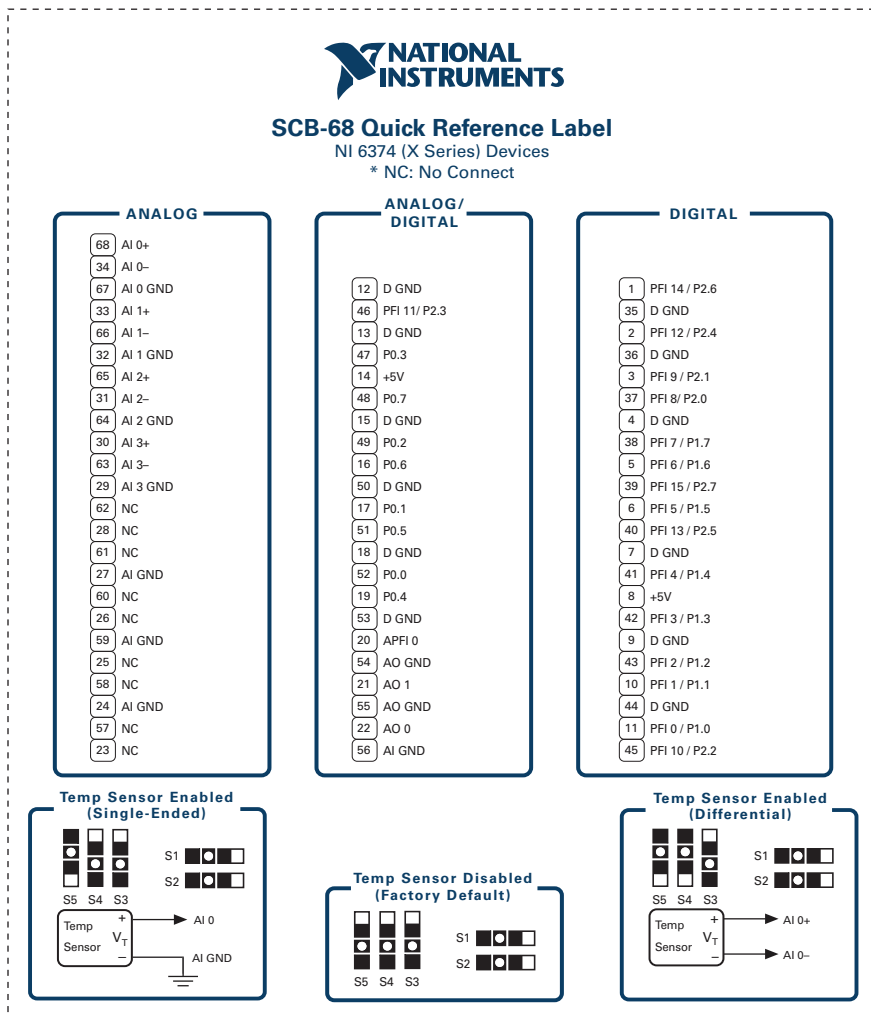
Use the following label if you are connecting the SCB-68 to Connector 0 of NI 6251/6255/6259/6281/6289 and NI 635x/636x/6375/6376/6378 models.

**Figure 4.** NI 6251/6255/6259/6281/6289 and NI 635x/636x/6375/6376/6378 Connector 0



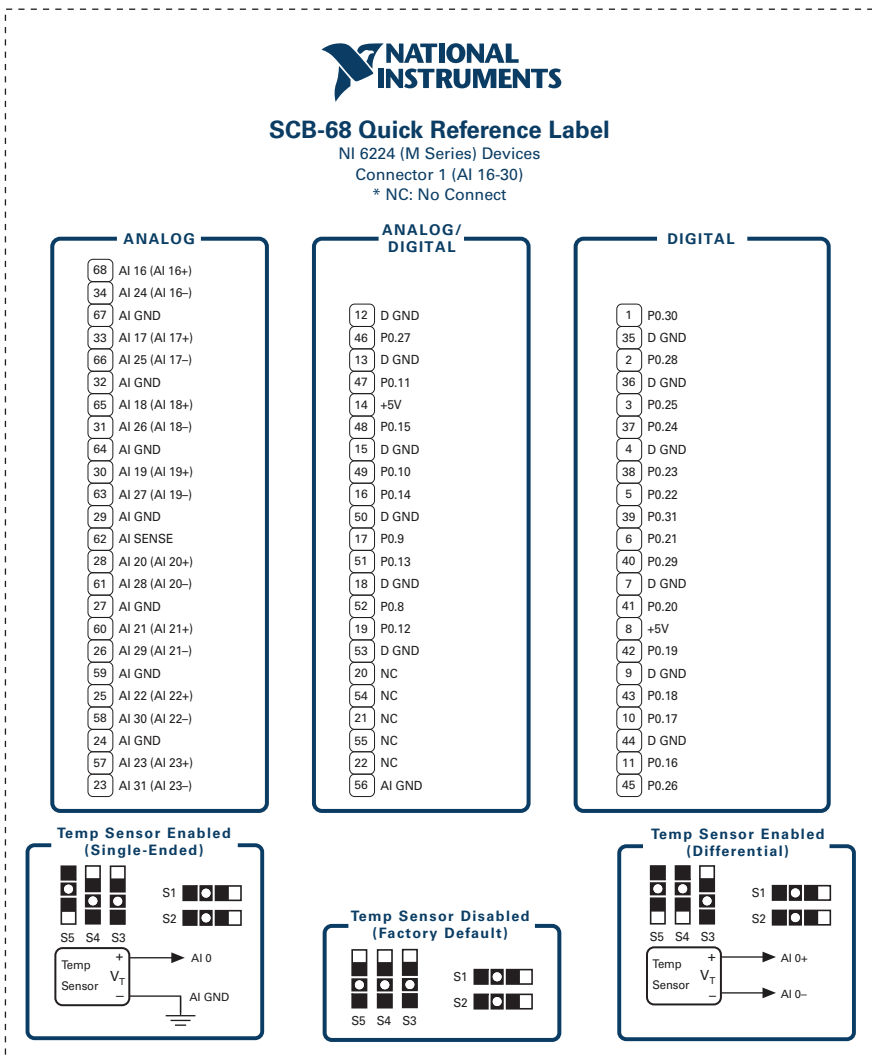
Use the following label if you are connecting the SCB-68 to Connector 0 of the NI 6374 model.

**Figure 5. NI 6374 Connector 0**



Use the following label if you are connecting the SCB-68 to Connector 1 of the NI 6224 model.

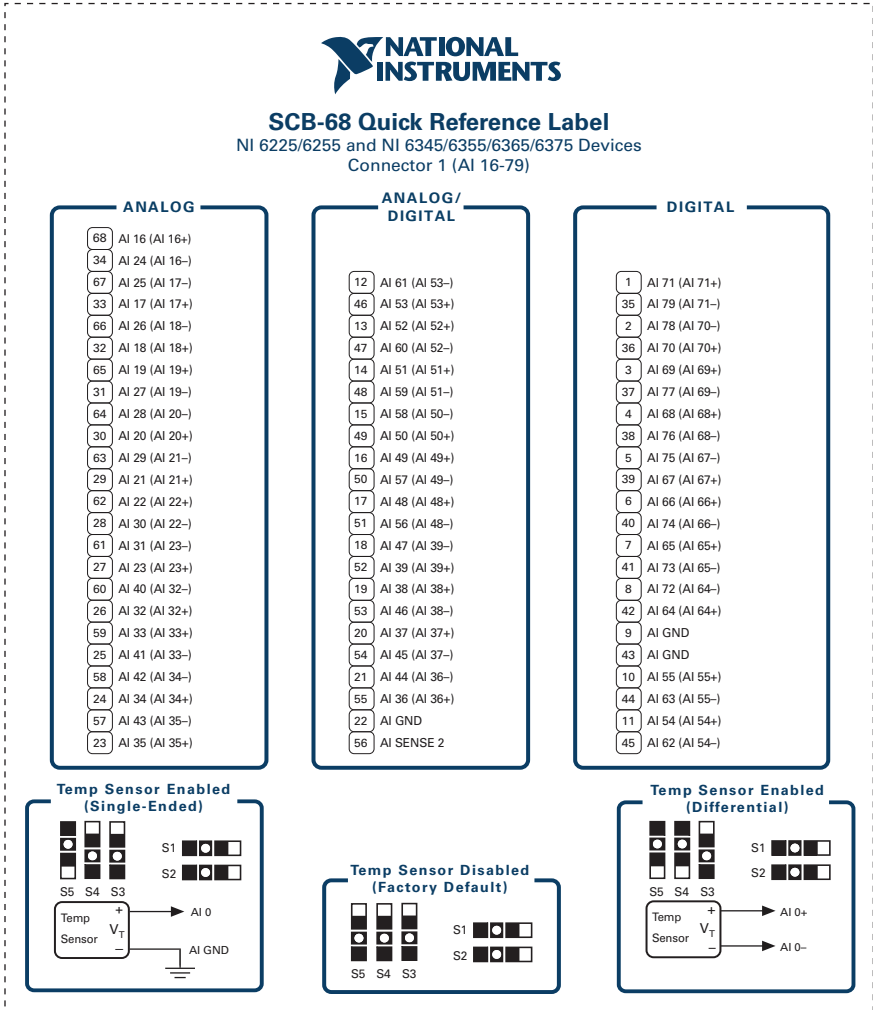
**Figure 6. NI 6224 Connector 1**





Use the following label if you are connecting the SCB-68 to Connector 1 of NI 6225/6255 and NI 6345/6355/6365/6375 models.

**Figure 7. NI 6225/6255 and 6345/6355/6365/6375 Connector 1**



Use the following label if you are connecting the SCB-68 to Connector 1 of NI 6229 and NI 6323/6343 models.

**Figure 8.** NI 6229 and NI 6323/6343 Connector 1



**SCB-68 Quick Reference Label**

NI 6229 (M Series) and NI 6323/6343 (X Series) Devices  
 Connector 1 (AI 16-30)  
 \* NC: No Connect



**ANALOG**

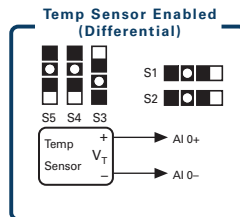
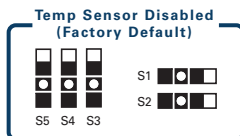
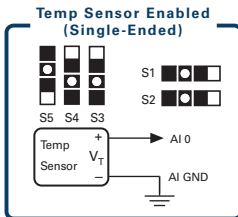
68	AI 16 (AI 16+)
34	AI 24 (AI 16-)
67	AI GND
33	AI 17 (AI 17+)
66	AI 25 (AI 17-)
32	AI GND
65	AI 18 (AI 18+)
31	AI 26 (AI 18-)
64	AI GND
30	AI 19 (AI 19+)
63	AI 27 (AI 19-)
29	AI GND
62	AI SENSE
28	AI 20 (AI 20+)
61	AI 28 (AI 20-)
27	AI GND
60	AI 21 (AI 21+)
26	AI 29 (AI 21-)
59	AI GND
25	AI 22 (AI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

**ANALOG/  
DIGITAL**

12	D GND
46	P0.27
13	D GND
47	P0.11
14	+5V
48	P0.15
15	D GND
49	P0.10
16	P0.14
50	D GND
17	P0.9
51	P0.13
18	D GND
52	P0.8
19	P0.12
53	D GND
20	NC
54	AO GND
21	AO 3
55	AO GND
22	AO 2
56	AI GND

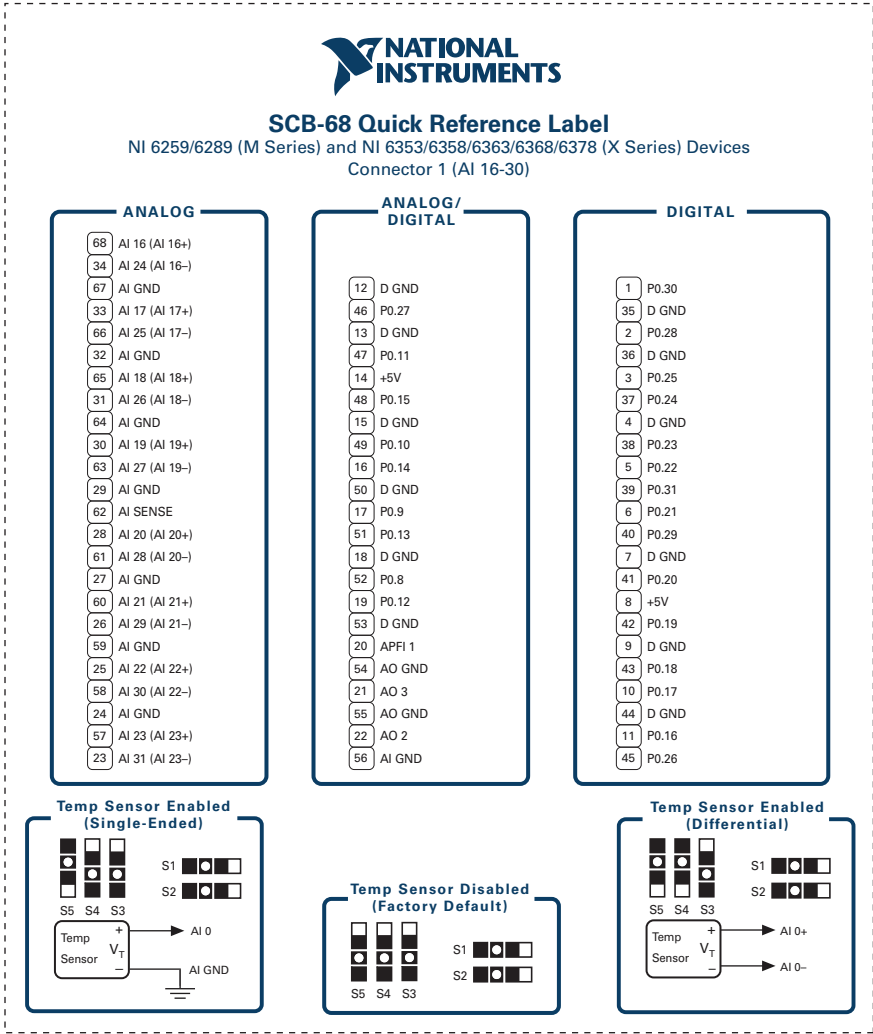
**DIGITAL**

1	P0.30
35	D GND
2	P0.28
36	D GND
3	P0.25
37	P0.24
4	D GND
38	P0.23
5	P0.22
39	P0.31
6	P0.21
40	P0.29
7	D GND
41	P0.20
8	+5V
42	P0.19
9	D GND
43	P0.18
10	P0.17
44	D GND
11	P0.16
45	P0.26



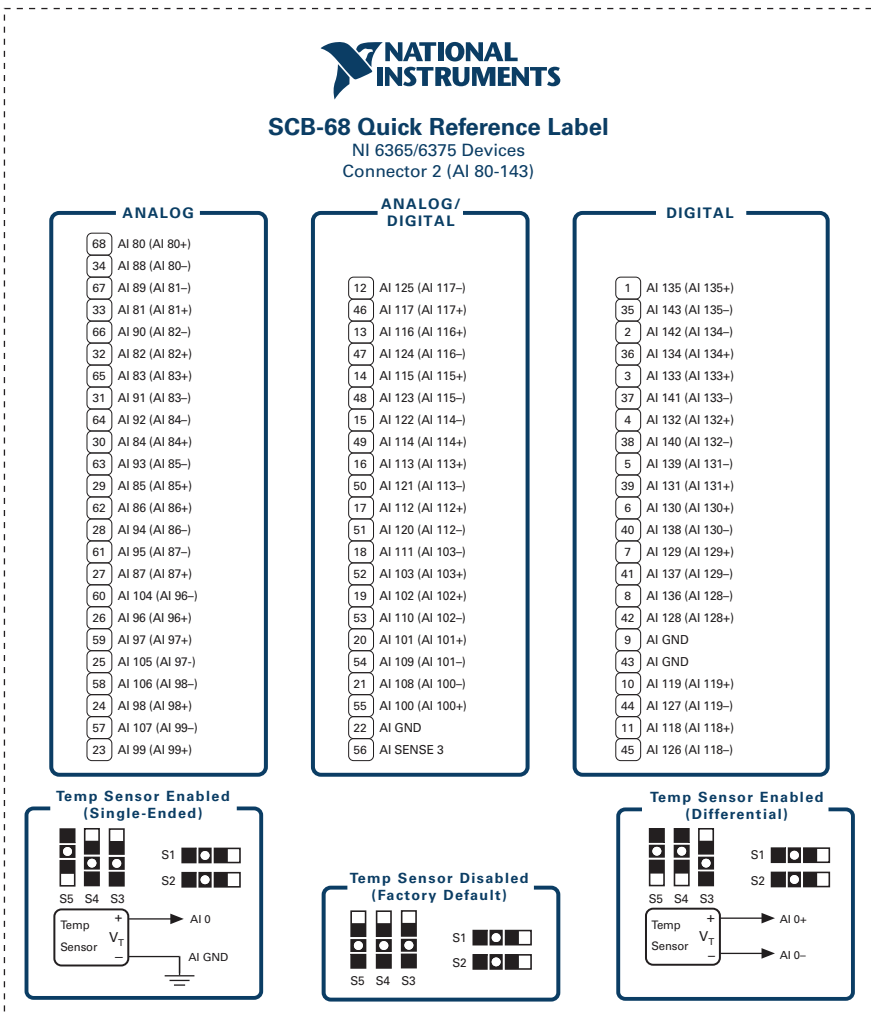
Use the following label if you are connecting the SCB-68 to Connector 1 of NI 6259/6289 and NI 6353/6358/6363/6368/6378 models.

**Figure 9.** NI 6259/6289 and NI 6353/6358/6363/6368/6378 Connector 1



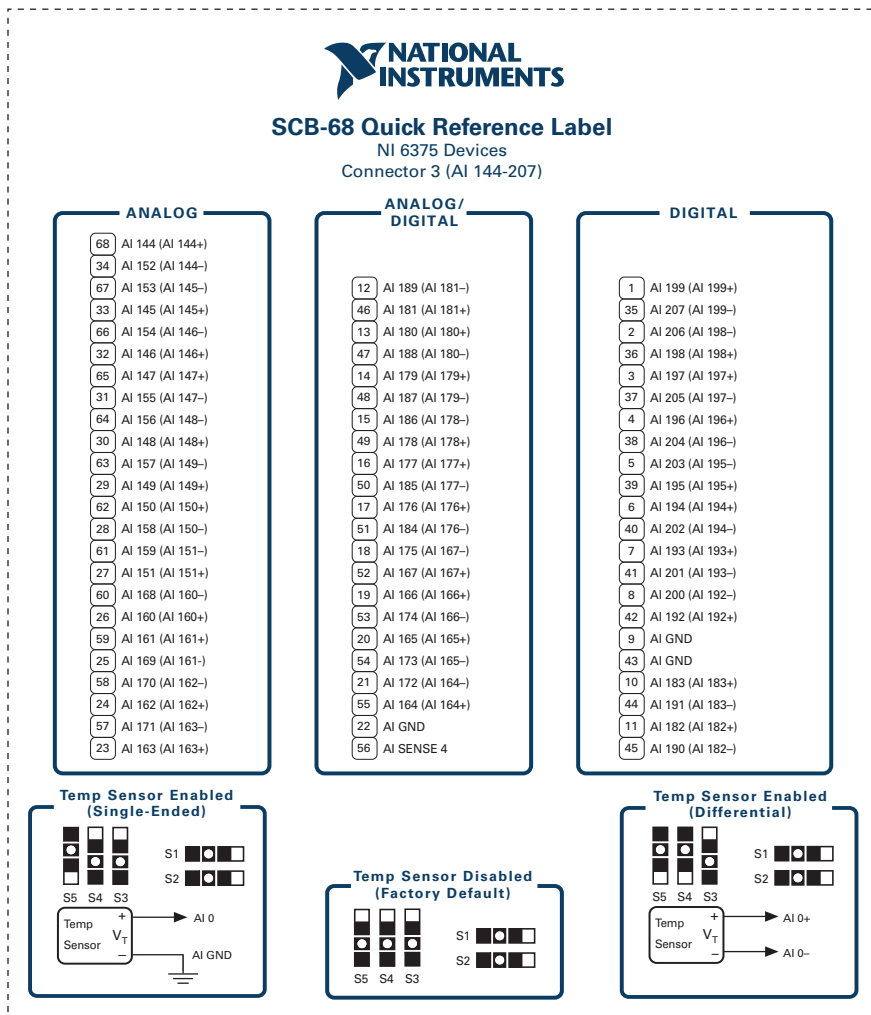
Use the following label if you are connecting the SCB-68 to Connector 2 of NI 6365/6375 models.

**Figure 10. NI 6365/6375 Connector 2**



Use the following label if you are connecting the SCB-68 to Connector 3 of the NI 6375 model.

**Figure 11. NI 6375 Connector 3**



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