



NATIONAL INSTRUMENTS NI 66xx 100-Pin Shielded Connector Block User Guide

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NATIONAL INSTRUMENTS NI 66xx 100-Pin Shielded Connector Block



Product Information

The PCI-6624 is a counter/timer module/device manufactured by NI (National Instruments). It is designed to be used with the SCB-100A, a 100-pin shielded connector block. The module is specifically compatible with the NI 6624 models. The SCB-100A is used to connect the PCI-6624 to other devices. However, it is important to note that the connector bank layout on the label may differ from the actual connector bank layout on the SCB-100A hardware. The product also includes a quick reference label for the SCB-100A, which provides information and instructions specific to the Counter/Timer NI 6624 TIO devices. The label contains pinout information and indicates that some pins may not be connected (NC: No Connect).

- **Product Model:** PCI-6624
- **Manufacturer:** National Instruments
- **Model Compatibility:** NI 6624
- **Connector Block:** SCB-100A
- **Label Reference:** 376936A-01
- **Date:** May 17

Product Usage Instructions

1. Ensure that you have the following components: PCI-6624 module, SCB-100A connector block, and NI 6624 TIO devices.
2. Check the label provided with the SCB-100A for the correct pinout information.
3. Connect the SCB-100A to the PCI-6624 module by aligning the connectors and firmly pushing them together.
4. Verify that the connector bank layout on the SCB-100A matches the pinout label provided.

5. If any pins are labeled as “NC: No Connect,” leave them unconnected.
6. Connect the NI 6624 TIO devices to the appropriate connectors on the SCB-100A, following the pinout information.
7. Double-check all connections to ensure they are secure.
8. Refer to the user manual for further instructions on configuring and using the PCI-6624 counter/timer module with the connected devices.

NOTE TO USERS

NI 66xx Pinout Label for the SCB-100A Counter/Timer TIO Series Modules/Devices Using the 100-Pin Shielded Connector Block If you are using an NI 66xx (formerly referred to as TIO Series) counter/timer device or module with the SCB-100A, you can print and 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 6624

Use the following label if you are connecting the SCB-100A to the NI 6624 models. Note that the connector bank layout on the label differs from the actual connector bank layout on the SCB-100A hardware

Reference Label

DIGITAL

1. PFI 39 +/CTR 0 SOURCE +
2. PFI 39 –/CTR 0 SOURCE –
3. PFI 38 +/CTR 0 GATE +
4. PFI 38 –/CTR 0 GATE –
5. PFI 37 +/CTR 0 AUX +
6. PFI 37 –/CTR 0 AUX –
7. PFI 36 Vdd/CTR 0 Vdd
8. PFI 36 Vss/CTR 0 Vss
9. PFI 36/CTR 0 OUT
10. PFI 36 Vss/CTR 0 Vss
11. PFI 35 +/CTR 1 SOURCE +
12. PFI 35 –/CTR 1 SOURCE –
13. PFI 34 +/CTR 1 GATE +
14. PFI 34 –/CTR 1 GATE –
15. PFI 33 +/CTR 1 AUX +
16. PFI 33 –/CTR 1 AUX –
17. PFI 32 Vdd/CTR 1 Vdd
18. PFI 32 Vss/CTR 1 Vss
19. PFI 32/CTR 1 OUT
20. PFI 32 Vss/CTR 1 Vss
21. PFI 31 +/CTR 2 SOURCE +
22. PFI 31 –/CTR 2 SOURCE –
23. PFI 30 +/CTR 2 GATE +
24. PFI 30 –/CTR 2 GATE –
25. PFI 29 +/CTR 2 AUX +
26. PFI 29 –/CTR 2 AUX –

27. PFI 28 Vdd/CTR 2 Vdd
28. PFI 28 Vss/CTR 2 Vss
29. PFI 28/CTR 2 OUT
30. PFI 28 Vss/CTR 2 Vss
31. PFI 27 +/CTR 3 SOURCE +
32. PFI 27 –/CTR 3 SOURCE –
33. PFI 26 +/CTR 3 GATE +
34. PFI 26 –/CTR 3 GATE –
35. PFI 25 +/CTR 3 AUX +
36. PFI 25 –/CTR 3 AUX –
37. PFI 24 Vdd/CTR 3 Vdd
38. PFI 24 Vss/CTR 3 Vss
39. PFI 24/CTR 3 OUT
40. PFI 24 Vss/CTR 3 Vss
41. PFI 0 +
42. PFI 0 –
43. NC
44. NC
45. NC
46. NC
47. NC
48. NC
49. NC
50. NC
51. PFI 23 +/CTR 4 SOURCE +
52. PFI 23 –/CTR 4 SOURCE –
53. PFI 22 +/CTR 4 GATE +
54. PFI 22 –/CTR 4 GATE –
55. PFI 21 +/CTR 4 AUX +
56. PFI 21 –/CTR 4 AUX –
57. PFI 20 Vdd/CTR 4 Vdd
58. PFI 20 Vss/CTR 4 Vss
59. PFI 20/CTR 4 OUT
60. PFI 20 Vss/CTR 4 Vss
61. PFI 19 +/CTR 5 SOURCE +
62. PFI 19 –/CTR 5 SOURCE –
63. PFI 18 +/CTR 5 GATE +
64. PFI 18 –/CTR 5 GATE –
65. PFI 17 +/CTR 5 AUX +
66. PFI 17 –/CTR 5 AUX –
67. PFI 16 Vdd/CTR 5 Vdd
68. PFI 16 Vss/CTR 5 Vss
69. PFI 16/CTR 5 OUT

70. PFI 16 Vss/CTR 5 Vss
71. PFI 15 +/CTR 6 SOURCE +
72. PFI 15 –/CTR 6 SOURCE –
73. PFI 14 +/CTR 6 GATE +
74. PFI 14 –/CTR 6 GATE –
75. PFI 13 +/CTR 6 AUX +
76. PFI 13 –/CTR 6 AUX –
77. PFI 12 Vdd/CTR 6 Vdd
78. PFI 12 Vss/CTR 6 Vss
79. PFI 12/CTR 6 OUT
80. PFI 12 Vss/CTR 6 Vss
81. PFI 11 +/CTR 7 SOURCE +
82. PFI 11 –/CTR 7 SOURCE –
83. PFI 10 +/CTR 7 GATE +
84. PFI 10 –/CTR 7 GATE –
85. PFI 9 +/CTR 7 AUX +
86. PFI 9 –/CTR 7 AUX –
87. PFI 8 Vdd/CTR 7 Vdd
88. PFI 8 Vss/CTR 7 Vss
89. PFI 8/CTR 7 OUT
90. PFI 8 Vss/CTR 7 Vss
91. PFI 4 +
92. PFI 4 –
93. NC
94. NC
95. NC
96. NC
97. NC
98. NC
99. NC
100. NC

INSTRUCTION GUIDE

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Documents / Resources



[NATIONAL INSTRUMENTS NI 66xx 100-Pin Shielded Connector Block](#) [pdf] User Guide 6624, PCI-6624, PXI-6624, NI 66xx 100-Pin Shielded Connector Block, 100-Pin Shielded Connector Block, Shielded Connector Block, Connector Block

References

- [NI Trade Compliance - NI](#)
- [NI National Instruments Patents - NI](#)
- [NI NI Trademarks and Logo Guidelines - NI](#)
- [NI PCI-6624 National Instruments Counter/Timer Device | Apex Waves](#)

Manuals+