




APEX WAVES PCIe-6612 Counter-Timer TIO Series Modules User Guide

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APEX WAVES PCIe-6612 Counter-Timer TIO Series Modules



Product Information

The PCIe-6612 is a Counter/Timer TIO Series Module/Device that uses the 100-Pin Shielded Connector Block. It can be connected to the SCB-100A and NI 6624 models for digital input/output operations. The product is designed to provide accurate timing and counting capabilities for a variety of applications.

Product Usage Instructions

Before using the PCIe-6612, ensure that you have read and understood the user manual provided with the product. Follow the instructions below to use the product:

1. Connect the PCIe-6612 to the SCB-100A using the pinout label provided in the user manual.
2. Ensure that the connector bank layout on the label matches the actual connector bank layout on the SCB-100A hardware.
3. Refer to the SCB-100A Quick Reference Label for Counter/Timer NI 6624 TIO Devices while connecting the devices.
4. Note that 'NC' means 'No Connect' and should not be connected to any other device.
5. Follow the instructions provided in the user manual to configure and operate the PCIe-6612 for your specific application.
6. If you encounter any issues while using the product, refer to the troubleshooting section in the user manual or contact customer support for assistance.

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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. NI 6624



SCB-100A Quick Reference Label

Counter/Timer NI 6624 TIO Devices

*NC: No Connect

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

DIGITAL

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

DIGITAL

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 -

DIGITAL

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

DIGITAL

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 -

DIGITAL

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 -

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TIO Series Modules, Modules

References

- [NI Trade Compliance - NI](#)
- [NI National Instruments Patents - NI](#)
- [NI Trademarks and Logo Guidelines - NI](#)
- [NI PCIe-6612 National Instruments Counter/Timer Device | Apex Waves](#)

[Manuals+](#).