

APEX WAVES PCIe-6612 Counter-Timer Module User Guide

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APEX WAVES PCIe-6612 Counter-Timer Module



Product Information

The PCIe-6612 is a Counter/Timer Module that is used with the SCB-68A Shielded Connector Block. It is compatible with NI 6601, NI 6602, NI 6608, NI 6612, and NI 6614 models. The module has a 68-pin connector block and provides various input and output terminals for signal measurement and generation.

Product Usage Instructions

To use the PCle-6612 Counter/Timer Module, follow the below instructions:

- 1. Connect the SCB-68A Shielded Connector Block to the PCle-6612 module.
- 2. Refer to the appropriate pinout labels for the NI model you are connecting to the SCB-68A. Use Figure 1 for NI 6601, NI 6602, and NI 6608 models. Use Figure 2 for NI 6612 and NI 6614 models.
- 3. Connect the input/output terminals to the appropriate signal sources or measurement devices.
- 4. Configure the module settings using the appropriate software (such as NI-MAX or LabVIEW) depending on your application requirements.
- 5. Start acquiring or generating signals as per your application needs.

Counter/Timer Modules/Devices Using the 68-Pin Shielded Connector Block

If you are using an NI 66xx (formerly referred to as TIO) counter/timer device or module with the SCB-68A, you can print and attach a connector-specific pinout label to the cover of the connector block for easy connection reference. This document provides the label for the following models:

Models

- NI 6601
- NI 6602
- NI 6608
- NI 6612
- NI 6614

Use the following label

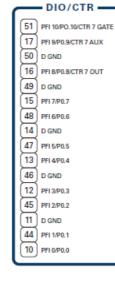
Use the following label if you are connecting the SCB-68A to NI 6601, NI 6602, and NI 6608 models.

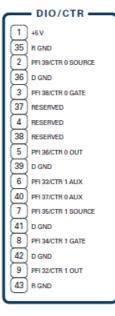
NI 660x



DIO/CTR = 68 D GND 34 PFI 31/P0.31/CTR 2 SOURCE 67 PFI 30/P0.30/CTR 2 GATE 33 D GND 66 PFI 29/P0.29/CTR 2 AUX 32 PFI 28/P0.28/CTR 2 OUT 65 D GND 31 PFI 27/P0.27/CTR 3 SOURCE 64 PFI 26/P0.26/CTR 3 GATE 30 D GND 63 PFI 25/P0.25/CTR 3 AUX 29 PFI 24/P0.24/CTR 3 OUT 62 D GND 28 PFI 23/P0.23/CTR 4 SOURCE 61 PFI 22/P0.22/CTR 4 GATE 27 D GND 60 PFI 21/P0.21/CTR 4 AUX 26 PFI 20/P0.20/CTR 4 OUT

DIO/CTR = 59 D GND 25 PFI 19/P0.19/CTR 5 SOURCE 58 PFI 18/P0.18/CTR 5 GATE 24 D GND 57 PFI 17/P0.17/CTR 5 AUX 23 PFI 16/P0.16/CTR 5 OUT 56 R GND 22 PFI 15/P0.15/CTR 6 SOURCE 55 (21) PFI 14/P0.14/CTR 6 GATE 54 20 53 PFI 12/PO.12/CTR 6 OUT 19 52 PFI 11/P0.11/CTR 7 SOURCE 18





SCB-68A Quick Reference Label

NI 660x Counter/Timer (TIO) Models

R GND: These terminals are routed to RESERVED when using the product with a SH68-68-D1 shielded cable or routed to D GND when using the product with a R68-68 ribbon cable.



Use the following label if you are connecting the SCB-68A to NI 6612 and NI 6614 models.

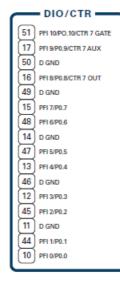
NI 661x

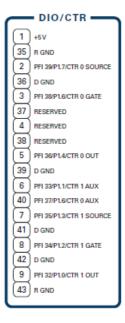


DIO/CTR • PFI 31/P0.31/CTR 2 SOURCE 67 PFI 30/P0.30/CTR 2 GATE 33 66 PFI 29/P0.29/CTR 2 AUX 32 PFI 28/P0.28/CTR 2 OUT 65 D GND 31 PFI 27/P0.27/CTR 3 SOURCE 64 PFI 26/P0.26/CTR 3 GATE 30) D GND 63 PFI 25/P0.25/CTR 3 AUX 29 PFI 24/P0.24/CTR 3 OUT 62 D GND 28 PFI 23/P0.23/CTR 4 SOURCE 61 PEL22/P0.22/CTR 4 GATE 27 D GND 60 PFI 21/P0.21/CTR 4 AUX 26 PFI 20/P0.20/CTR 4 OUT

$\overline{}$	DIO/CIR —
59	D GND
25	PFI 19/P0.19/CTR 5 SOURCE
(58)	PFI 18/P0.18/CTR 5 GATE
24	D GND
[57]	PFI 17/P0.17/CTR 5 AUX
23	PFI 16/P0.16/CTR 5 OUT
56	R GND
22	PFI 15/P0.15/CTR 6 SOURCE
55	D GND
21	PFI 14/P0.14/CTR 6 GATE
54	PFI 13/P0.13/CTR 6 AUX
20	D GND
53	PFI 12/PO.12/CTR 6 OUT
[19]	R GND
52	PFI 11/P0.11/CTR 7 SOURCE
[18]	D GND

DIO/CTD





SCB-68A Quick Reference Label

NI 661x Counter/Timer (TIO) Models

R GND: These terminals are routed to RESERVED when using the product with a SH68-68-D1 shielded cable or routed to D GND when using the product with a R68-68 ribbon cable.



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References

- <u>MEngineer Ambitiously NI</u>
- Trade Compliance NI
- National Instruments Patents NI
- NI Trademarks and Logo Guidelines NI
- /W PCle-6612 National Instruments Counter/Timer Device | Apex Waves

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