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NOTE TO USERS

Update to NI Vision I/O Terminal Block and Prototyping Accessory Front Panel

National Instruments is updating the front panel labels on the NI Vision I/O Terminal Block and Prototyping Accessory. You may receive a version of the accessory that is labeled NI 1450 I/O Terminal Block and Prototyping Accessory. There are no functionality differences between the two versions. This note describes how to use the NI PCIe-8255R with the version of the accessory labeled NI 1450 I/O Terminal Block and Prototyping Accessory.

Powering the Isolated Outputs on the NI 8255R

To wire isolated output power to the NI 8255R while using the NI 1450 I/O Accessory, you must connect the NI 1450 I/O Accessory to an external power supply, and use a 37-pin to 44-pin cable to connect the NI 1450 I/O Accessory to the NI 8255R. The NI 1450 I/O Accessory powers the NI 8255R via the 44-pin D-SUB connector.

The 44-pin D-SUB connector on the NI 8255R provides access to V_{iso} and C_{iso} for powering the isolated outputs. The V_{iso} terminal provides the isolated power (5 to 30 VDC) for the NI 8255R device. The C_{iso} terminal provides the common-mode signal for the NI 8255R device. Provide V_{iso} and C_{iso} to the NI 8255R via the V_{iso} and C_{iso} screw terminals on the NI 1450 I/O Accessory.

The orange **ISO** LED on the front panel of the NI 8255R device and the **ISO PWR OUT** LED on the front panel of the NI 1450 I/O Accessory will illuminate when V_{iso} and C_{iso} are properly connected to an external power supply.

Refer to the *NI PCIe-8255R Quick Start Guide* for more information about powering the NI 8255R. The following illustration shows the front panel of the NI 1450 I/O Accessory.

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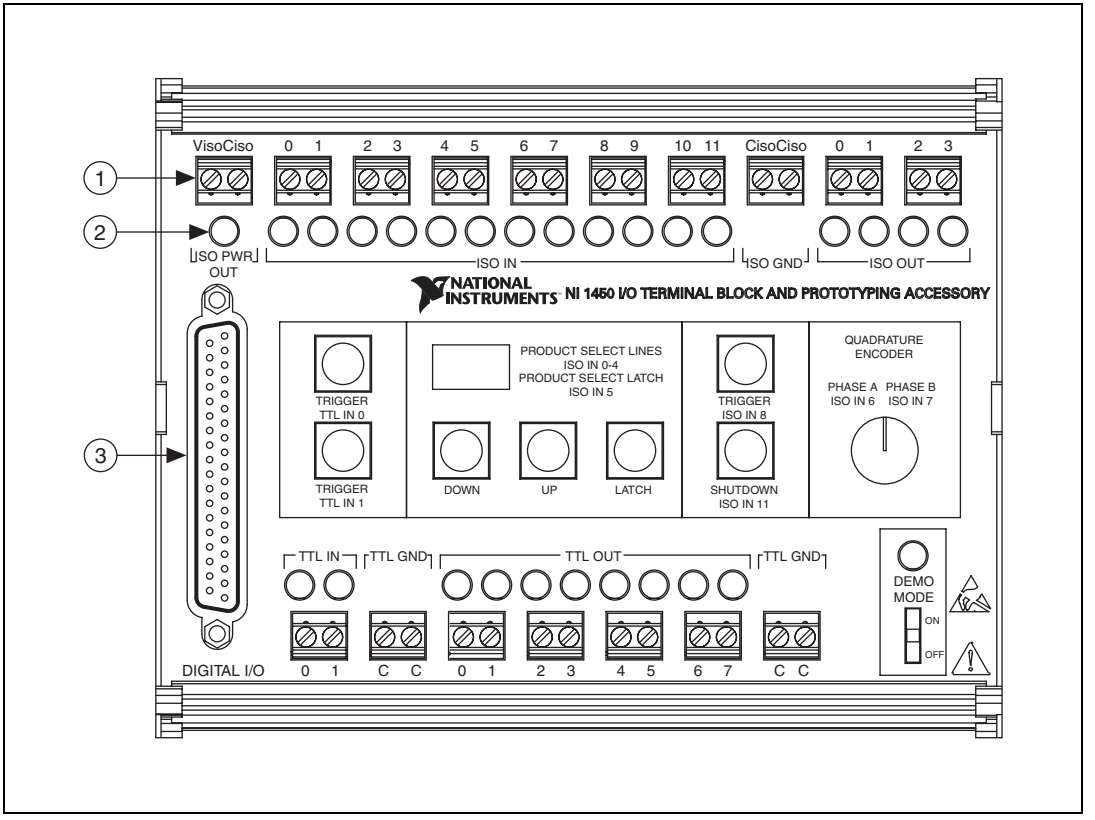
Note CVS-1450 devices and the NI 8254R device power the NI 1450 I/O Accessory via the 44-pin D-SUB connector located on the devices. The power connector on CVS-1450 devices and the NI 8254R device provides V_{iso} and C_{iso}. With these devices, do *not* connect an external power supply to the V_{iso} and C_{iso} screw terminals on the NI 1450 I/O Accessory.



1 V_{iso} and C_{iso} Screw Terminals	3 37-pin D-SUB connector to connect to the CVS-1450, NI PCI-8254R, or NI PCIe-8255R device
2 LED that shows if ISO PWR is active	

Figure 1. NI 1450 I/O Terminal Block and Prototyping Accessory Front Panel

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