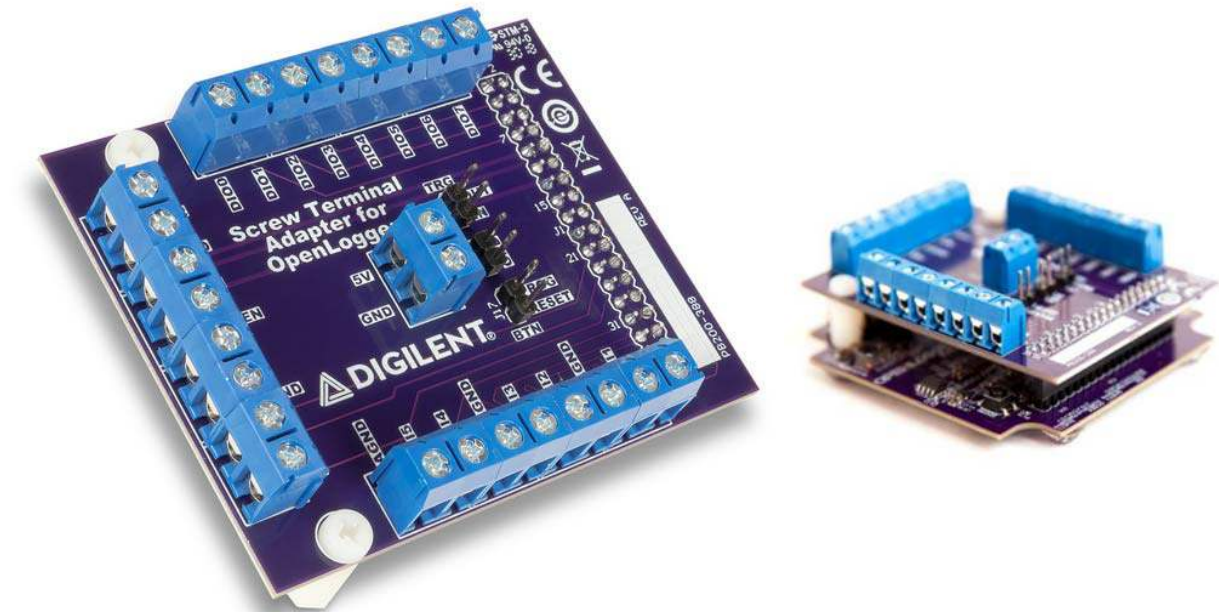


# Screw Terminal Adapter for OpenLogger

SKU: 410-388



## Product Description

Screw terminals are a common and handy connection method for data logging. The Screw Terminal Adapter provides screw terminal block access to the eight analog inputs, 8 digital I/O, waveform generator, power supplies, and ground signals on the OpenLogger. The trigger pins, prog, and reset signals are broken out into male pin headers. The Screw Terminal Adapter is designed to attach on top of the OpenLogger so that the OpenLogger stays compact, and can be used with the OpenLogger in its acrylic case.

What's  
Included:

- Screw Terminal Adapter for [OpenLogger](#)
- Custom Diligent protective packaging

# OpenLogger Screw Terminal Adapter

The OpenLogger Screw Terminal Adapter is intended to be used with the Digilent OpenLogger to provide external connections to the OpenLogger via screw terminal adapters for more readily accessible inputs. The Screw Terminal Adapter connects directly on top of the OpenLogger to maintain a small form factor.

## Features

- Standard Screw Terminal Adapters for easy connectivity
- Designed to fit directly on top of the OpenLogger

## Physical Dimensions

The long side of the Screw Terminal Adapter for the Openlogger is 2.838 inches (72.1 mm) and the short side of the PCB is 2.2835 inches (58 mm) in length.

## Functional Description

The OpenLogger Screw Terminal Adapter provides screw terminals for each analog input and each digital pin, with an analog ground pin to pair with each analog input. A screw terminal pair for the 5V power supply from the OpenLogger is available in the center of the board as well as additional headers for access to a few of the OpenLogger specific pins.

## Pinout Diagram

| Primary connector |       |   |       | West Screw Terminals |                    | North Screw Terminals |        |
|-------------------|-------|---|-------|----------------------|--------------------|-----------------------|--------|
| 1                 | GPIO3 | 2 | GPIO7 | DC2                  | DC Output 2        | DIO0                  | GPIO 0 |
| 3                 | GPIO2 | 4 | GPIO6 | GND                  | Digital Ground     | DIO1                  | GPIO 1 |
| 5                 | GPIO1 | 6 | GPIO5 | DC1                  | DC Output 1        | DIO2                  | GPIO 2 |
| 7                 | GPIO0 | 8 | GPIO4 | WGEN                 | Waveform Generator | DIO3                  | GPIO 3 |

| Primary connector |          |    |          | West Screw Terminals  |                | North Screw Terminals  |                         |
|-------------------|----------|----|----------|-----------------------|----------------|------------------------|-------------------------|
| 9                 | DC 2     | 10 | GND      | AI8+                  | Analog Input 8 | DIO4                   | GPIO 4                  |
| 11                | DC 1     | 12 | GND      | AGND                  | Analog Ground  | DIO5                   | GPIO 5                  |
| 13                | Wavegen  | 14 | GND      | AI7+                  | Analog Input 7 | DIO6                   | GPIO 6                  |
| 15                | Reserved | 16 | Reserved | AI6+                  | Analog Input 6 | DIO7                   | GPIO 7                  |
| 17                | Reset    | 18 | PROG     | South Screw Terminals |                | Center Screw Terminals |                         |
| 19                | +5V      | 20 | GND      | AGND                  | Analog Ground  | 5V                     | 5V Output               |
| 21                | AI8+     | 22 | AGND8    | AI5+                  | Analog Input 5 | GND                    | Digital Ground          |
| 23                | AI7+     | 24 | AGND7    | AI4+                  | Analog Input 4 | Center Pin Headers     |                         |
| 25                | AI6+     | 26 | AGND6    | AGND                  | Analog Ground  | TRG<br>OUT             | Trigger Output (unused) |
| 27                | AI5+     | 28 | AGND5    | AI3+                  | Analog Input 3 | TRG<br>IN              | Trigger Input (unused)  |
| 29*               | AI4+     | 30 | AGND4    | AI2+                  | Analog Input 2 | PROG<br>BTN            | Program Button          |
| 31*               | AI3+     | 32 | AGND3    | AGND                  | Analog Ground  | RESET<br>BTN           | Reset Button            |

| Primary connector |      |    |       | West Screw Terminals |                | North Screw Terminals |                |
|-------------------|------|----|-------|----------------------|----------------|-----------------------|----------------|
| 33                | AI2+ | 34 | AGND2 | AI1+                 | Analog Input 1 | GND                   | Digital Ground |
| 35                | AI1+ | 36 | AGND1 |                      |                |                       |                |

\*Note – pin 29 is mislabeled as pin 31 on the silkscreen in Rev A of the Screw Terminal Adapter

