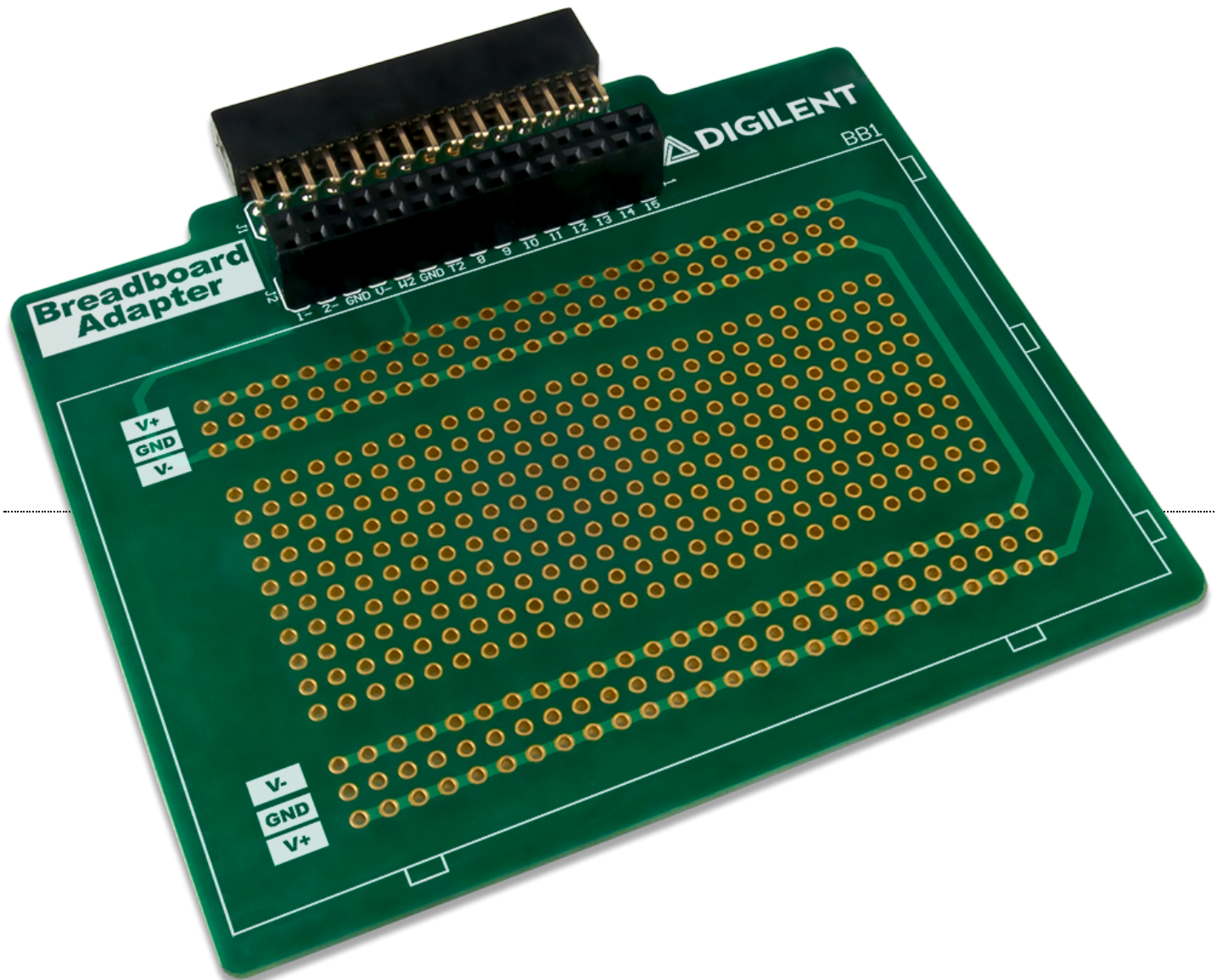


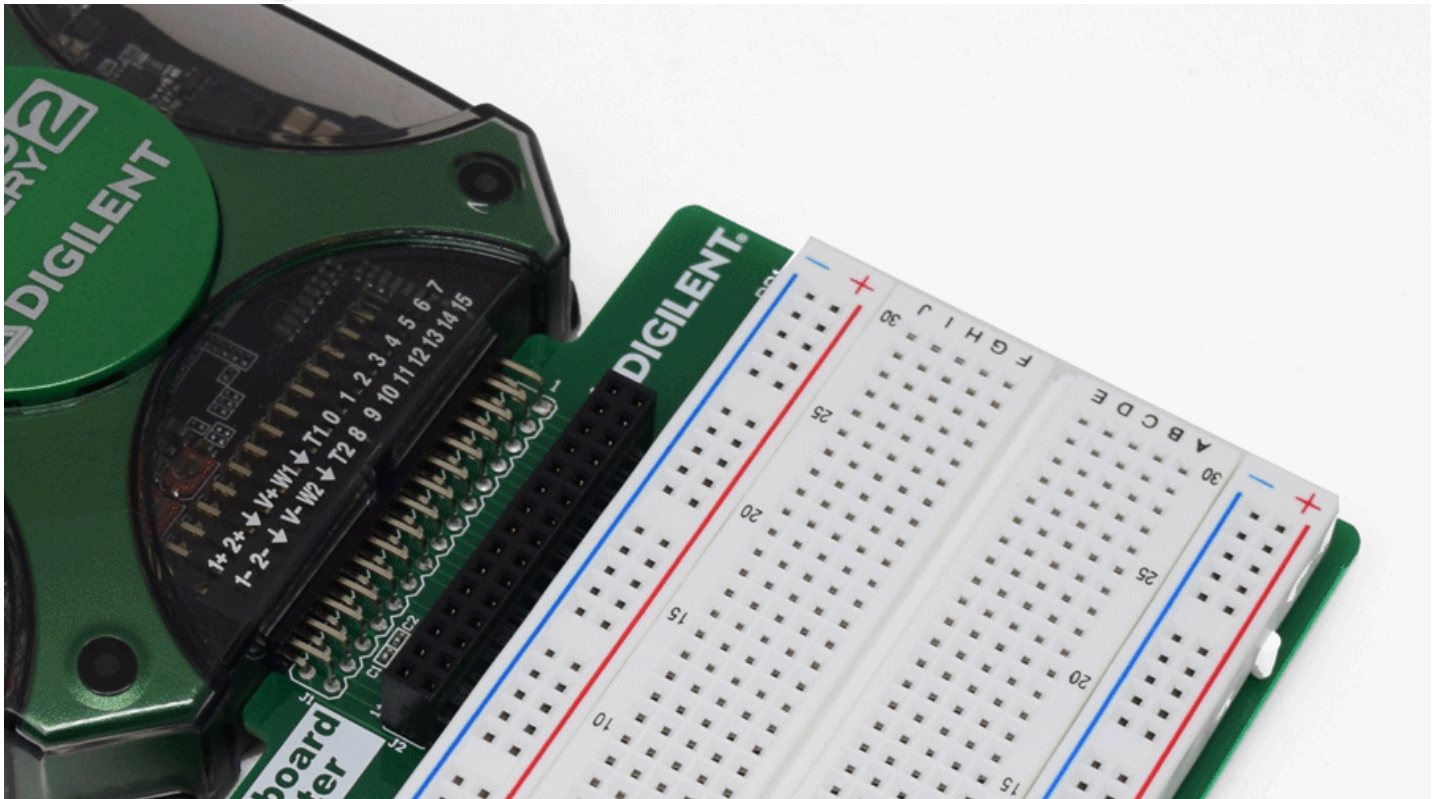
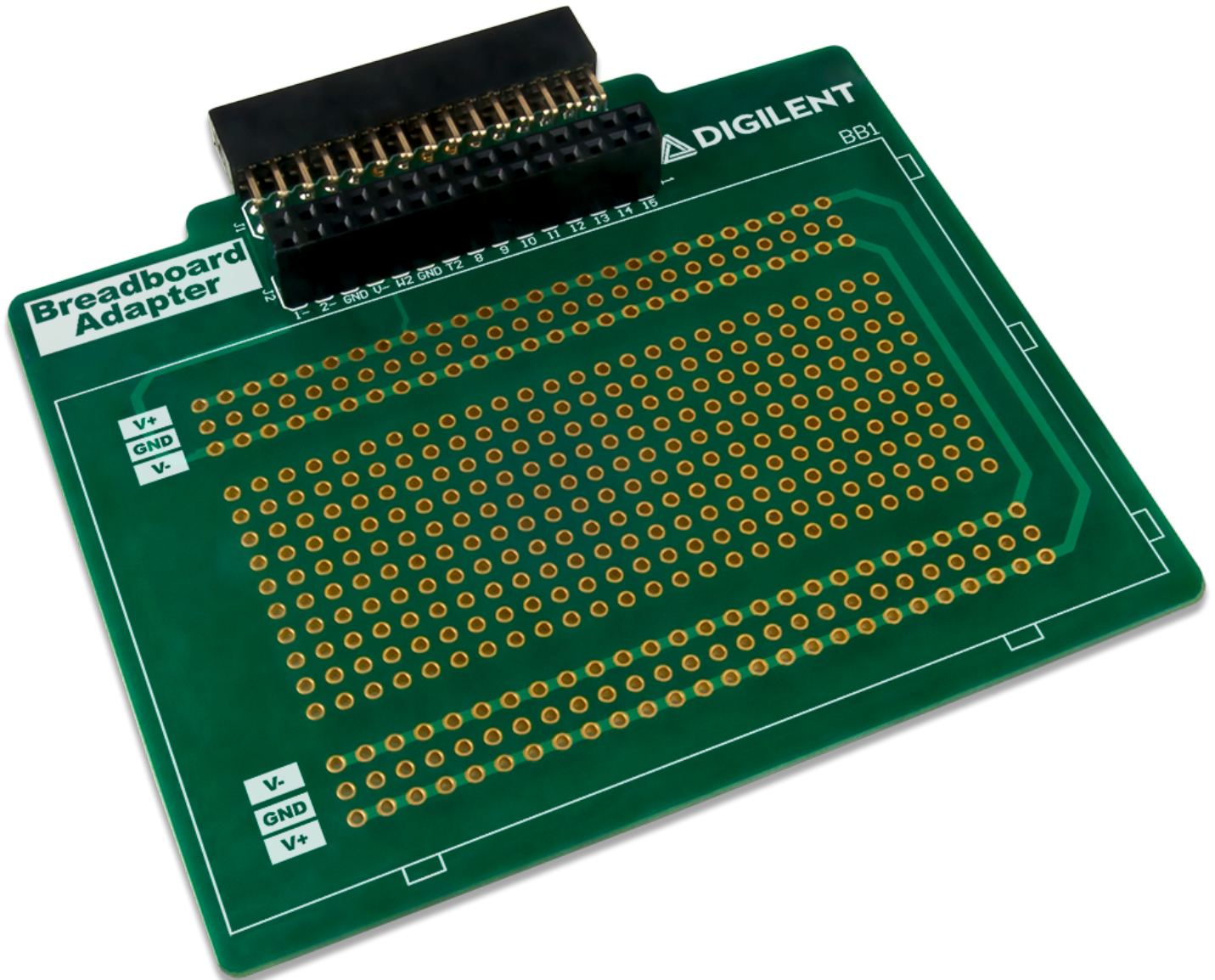
# Breadboard Adapter for Analog Discovery Reference Manual

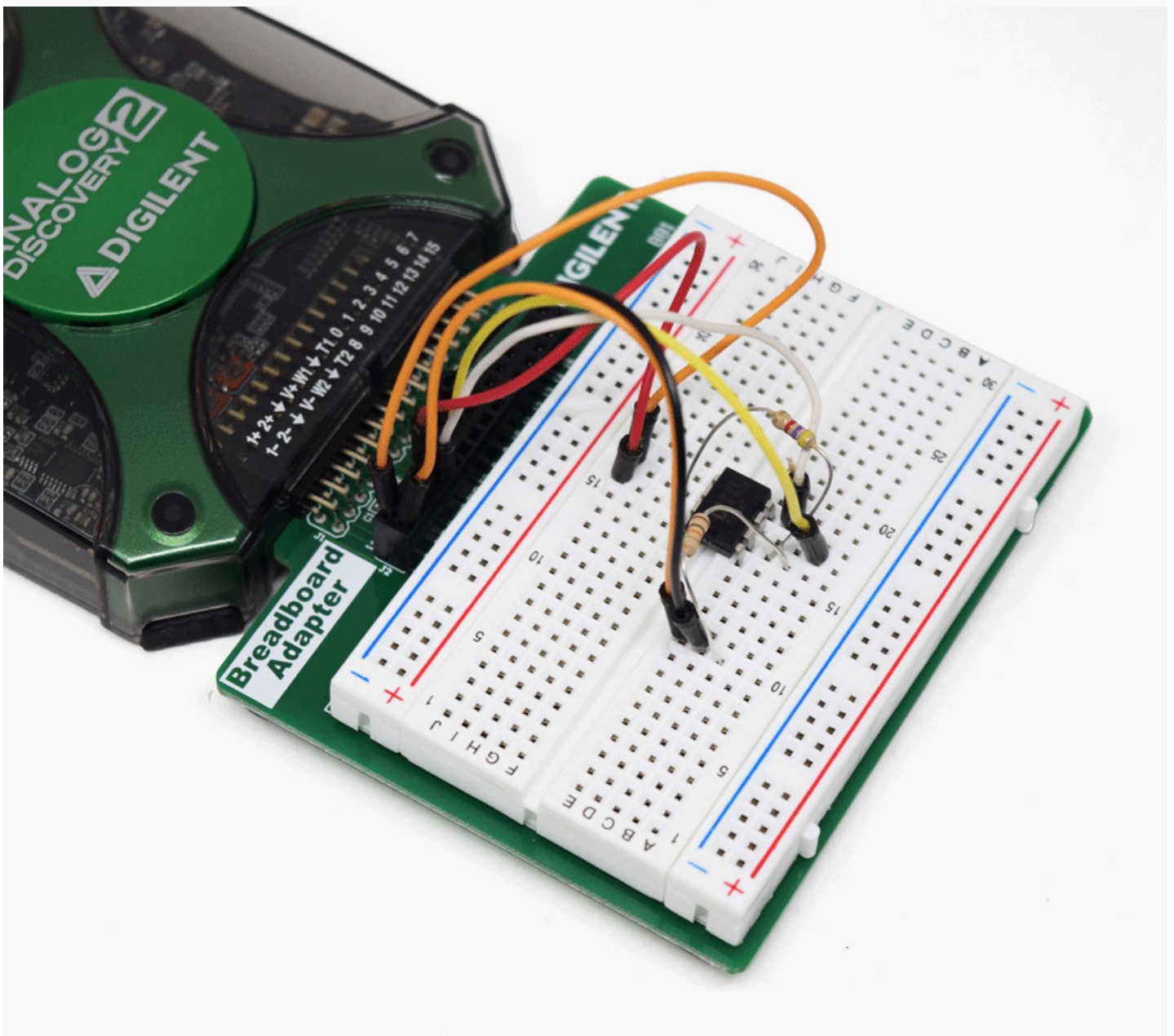
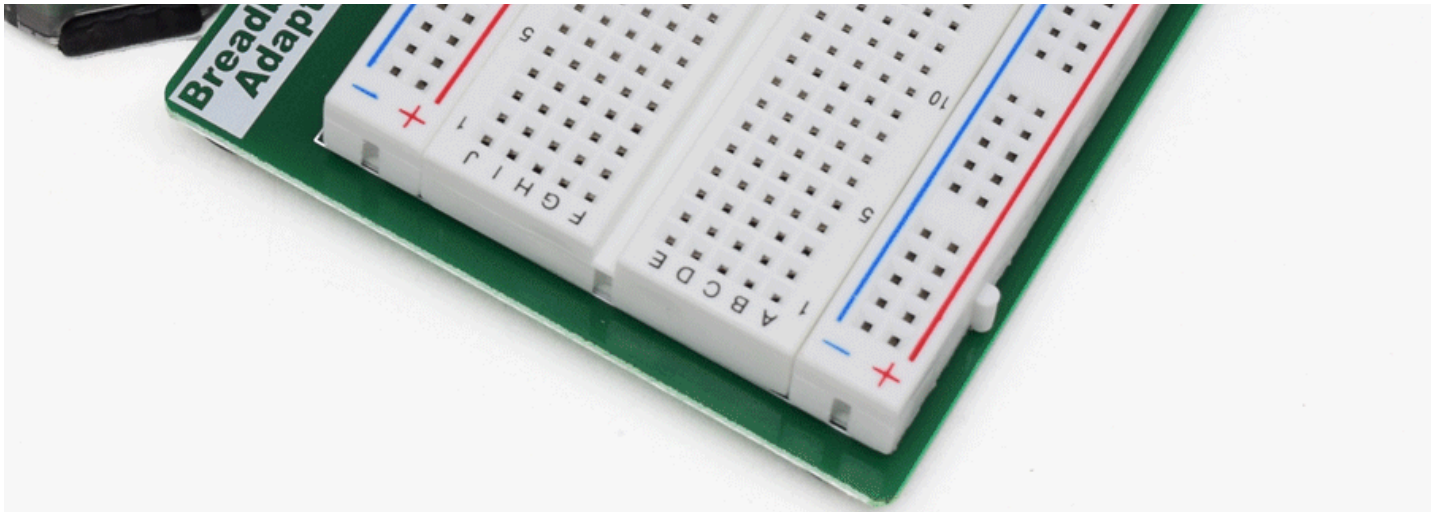
The Breadboard Adapter for Analog Discovery is intended to be used with Digilent's Analog Discovery tool to set up portable circuits to be easily reconnected and demonstrated at any time. This is ideal for a portable manufacturing test or setup for a demonstration or project. This is an alternative to the Flywire assembly for Analog Discovery.

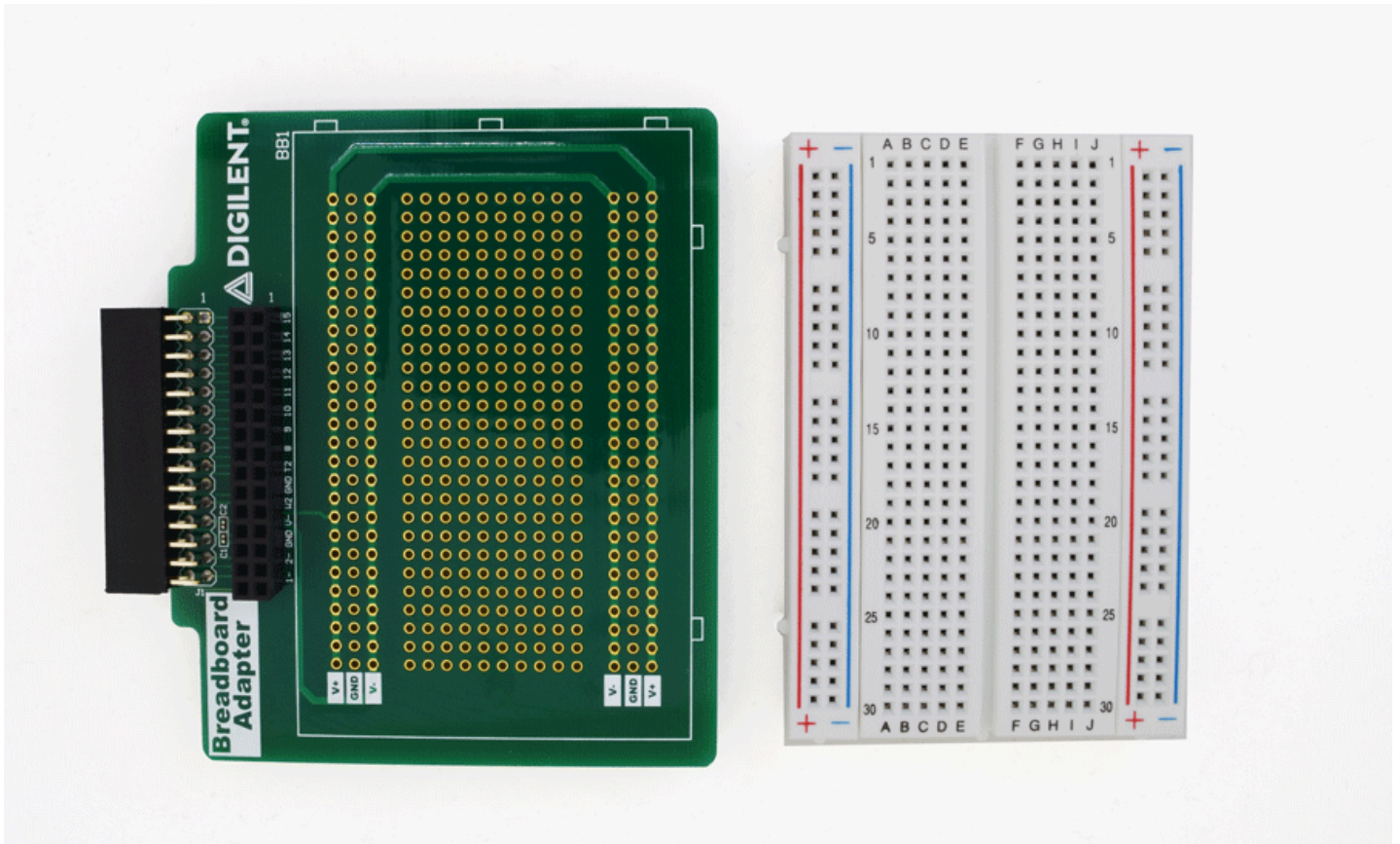


[https://reference.digilentinc.com/\\_media/reference/instrumentation/bb-adapter-board/breadboard\\_adapter.png](https://reference.digilentinc.com/_media/reference/instrumentation/bb-adapter-board/breadboard_adapter.png)











## Features

- Direct connection with the Analog Discovery tools

- Additional passthrough Analog Discovery header for easy connection
- Connected power rails
- Solderless breadboard for an alternative setup

## Physical Dimensions

The PCB of the [BB.0](#) Adapter is 9.0 cm (3.54 in) in width and 7.5 cm (2.95 in) in length. The feet on the bottom of the breadboard adapter are each 0.25 inches (0.635 cm) in height.

## Functional Description

The Breadboard Adapter for the Analog Discovery provides a way to create a portable circuit to debug or demonstrate with the Analog Discovery tools at any time. A solderless breadboard is provided with the breadboard adapter to provide a less permanent setup for more flexible designs.

## Pinout Diagram

Header J1				Header J2			
Pin 1	DIO 7	Pin 2	DIO 15	Pin 1	DIO 15	Pin 2	DIO 7
Pin 3	DIO 6	Pin 4	DIO 14	Pin 3	DIO 14	Pin 4	DIO 6
Pin 5	DIO 5	Pin 6	DIO 13	Pin 5	DIO 13	Pin 6	DIO 5
Pin 7	DIO 4	Pin 8	DIO 12	Pin 7	DIO 12	Pin 8	DIO 4
Pin 9	DIO 3	Pin 10	DIO 11	Pin 9	DIO 11	Pin 10	DIO 3
Pin 11	DIO 2	Pin 12	DIO 10	Pin 11	DIO 10	Pin 12	DIO 2
Pin 13	DIO 1	Pin 14	DIO 9	Pin 13	DIO 9	Pin 14	DIO 1
Pin 15	DIO 0	Pin 16	DIO 8	Pin 15	DIO 8	Pin 16	DIO 0
Pin 17	TRIG_1	Pin 18	TRIG_2	Pin 17	TRIG_2	Pin 18	TRIG_1
Pin 19	WGND	Pin 20	<a href="#">GND.0</a>	Pin 19	<a href="#">GND.0</a>	Pin 20	<a href="#">GND.0</a>
Pin 21	VOUT_AWG1	Pin 22	VOUT_AWG2	Pin 21	<a href="#">NC.0</a>	Pin 22	<a href="#">NC.0</a>
Pin 23	VOUT+_USR	Pin 24	VOUT-_USR	Pin 23	VOUT-_USR	Pin 24	VOUT+_USR
Pin 25	SGND	Pin 26	<a href="#">GND.0</a>	Pin 25	<a href="#">GND.0</a>	Pin 26	<a href="#">GND.0</a>
Pin 27	VIN_SC2_P	Pin 28	VIN_SC2_N	Pin 27	VIN_SC2_N	Pin 28	VIN_SC2_P
Pin 29	VIN_SC1_P	Pin 30	VIN_SC1_N	Pin 29	VIN_SC1_N	Pin 30	VIN_SC1_P

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