

# Giant Board

A single-board computer in the Adafruit Feather form factor

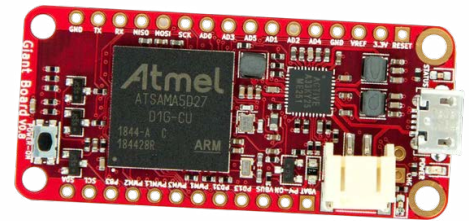
## Product Overview

10-29-21

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## Description

Crowd Supply Giant Board is a Single-Board Computer (SBC) in the Adafruit Feather form factor, based on the Microchip Technology SAMA5D2 Arm® Cortex®-A5 Microcontroller (MCU). The Giant Board makes a great alternative to a Raspberry Pi or Beagle Bone in a space-constrained project where you need more power than a typical microcontroller can provide. The Giant Board is based on a form factor that is traditionally used for microcontrollers, so power consumption is important, which is why the Giant Board offers low-power modes.



The Giant Board runs full Debian Linux, giving developers and users access to an endless number of applications and libraries for their projects, including Adafruit Blinka (Circuit Python for Linux). The Giant Board also supports the Adafruit Feather Wing pinout, which allows it to work with over 60 pre-existing add-on boards. Wireless connectivity can be added to the Giant Board via the Wi-Fi® Feather Wing for Giant (CSGIANT-03). This Linux-compatible add-on board is based on the low-power Microchip Technology ATWILC1000 Wi-Fi chipset supports the IEEE 2.4GHz 802.11 b/g/n standard and offers Station mode and Soft AP support.

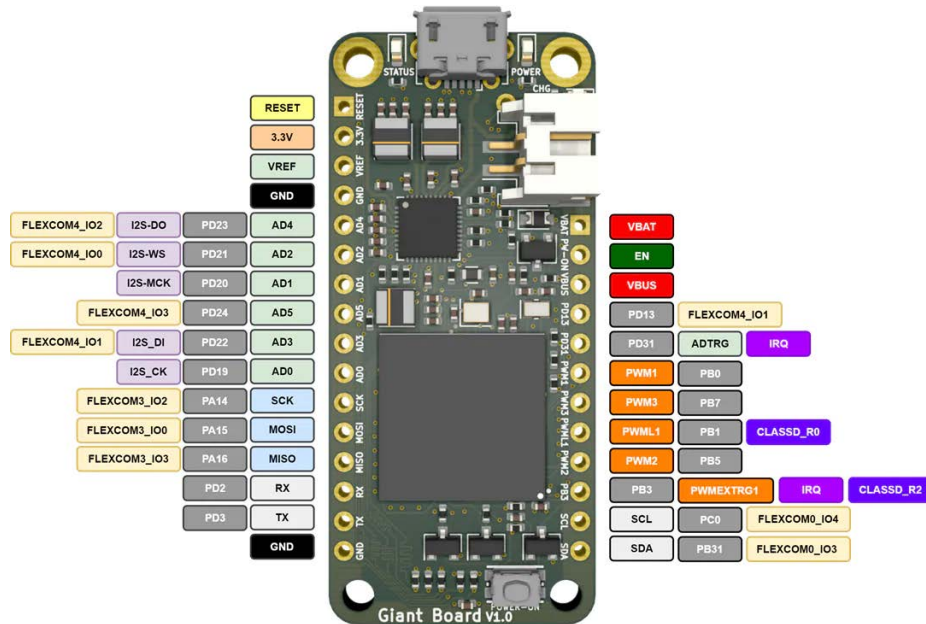
## Features

- Microchip Technology SAMA5D2 Arm Cortex-A5 Processor 500MHz
- 128MB DDR2 RAM built-in to the sip memory
- MicroSD card storage
- 6x12-bit ADC with 3.3V reference and external trigger sensing
- 4x16-bit PWM with external trigger actuation
- 1x I2C, 1x SPI, 1x UART with Flex com connectivity
- USB with support for LiPo batteries power
- Mainline Linux kernel is the operating system
- 0.9 x 2 (22.8mm X 50.8mm) size

## Applications

- Media streaming
- Data collection and analysis
- IoT gateway routing
- Robotics

## Block Diagram



## Mouser Part Number

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To learn more, <https://www.mouser.com/new/crowd-supply/crowd-supply-giant-board/>