Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

(images/product/114990280 1.jpg)

SODAQ Autonomo
SKU: 114990280

Description

SODAQ built a next generation, Arduino-compatible board that can record data and trigger actions in any environment.

We believe you can save yourself a lot of time by being notified of important information. The information you want and need should come to you, magically. Having to go to your favorite surf spot to see how strong the wind is, or physically measuring how much water there still is in the well nearby your village, is a thing of the past.

The Autonomo is a matchbox sized powerhouse which uses the new Atmel Cortex M0+ 32bit microcontroller. We designed it to be autonomous (self-sufficient) by enabling it to be powered by a smartphone sized solar panel. It will enable you to create devices that will notify you about anything.

The new M0+ processor packs computing power which is comparable to the first Mac. It will make you wonder why you ever used anything else.

Our goal was to create a device which would be able to **run indefinitely using solar generated power**. Leveraging our years of experience in creating low powered devices, the Autonomo has been created to run efficiently and with extremely low power consumption.

Specifications

- Microcontroller: ATSAMD21G18, 32-Bit ARM Cortex M0+
- Compatibility: Arduino M0 compatible
- Size: 58.5 x 33.5 mm
- Operating Voltage: 3.3V
- Digital I/O Pins: 16, with 12 PWM, UART, SPI and TWI (I2C)
- Analog Input Pins: 6, 12-bit ADC channels
- Analog Output Pins: 10-bit DAC
- External Interrupts: Available on all pins except pin 4
- DC Current per I/O pin: 7 mA
- Flash Memory: 256 KB
- SRAM: 32 KB
- EEPROM: Up to 16KB by emulation
- Clock Speed: 48 MHz
- Debug: Serial Wire Interface
- Communications: Bee compatible slot for communication modules with software switchable power
- Storage: 8Mbit Dataflash Module and Micro SD card holder
- Power: 5V USB power and/or 3.7V LiPo battery
- Power switch: Software switchable power for connected devices up to 1A
- Charging: Solar charge controller, up to 500mA charge current
- LED's: Yellow charge LED and green LED on pin 13

Part List

- 1 x SODAQ Autonomo