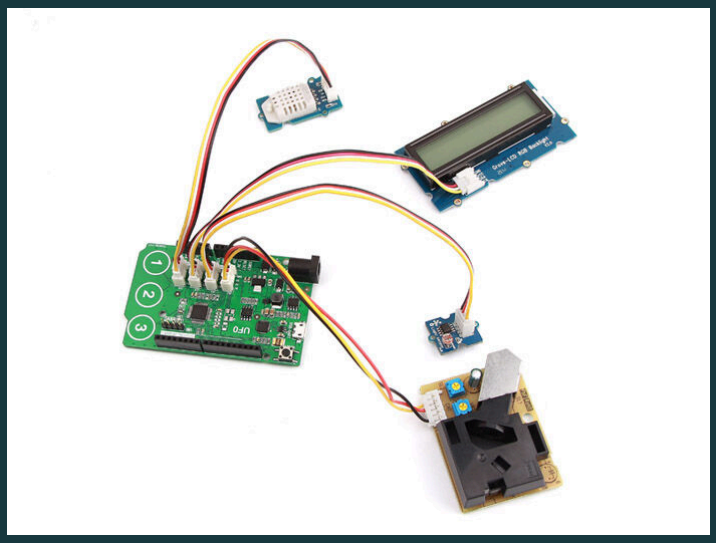
seeed studio

INDUSTRIAL PRODUCT DATASHEET

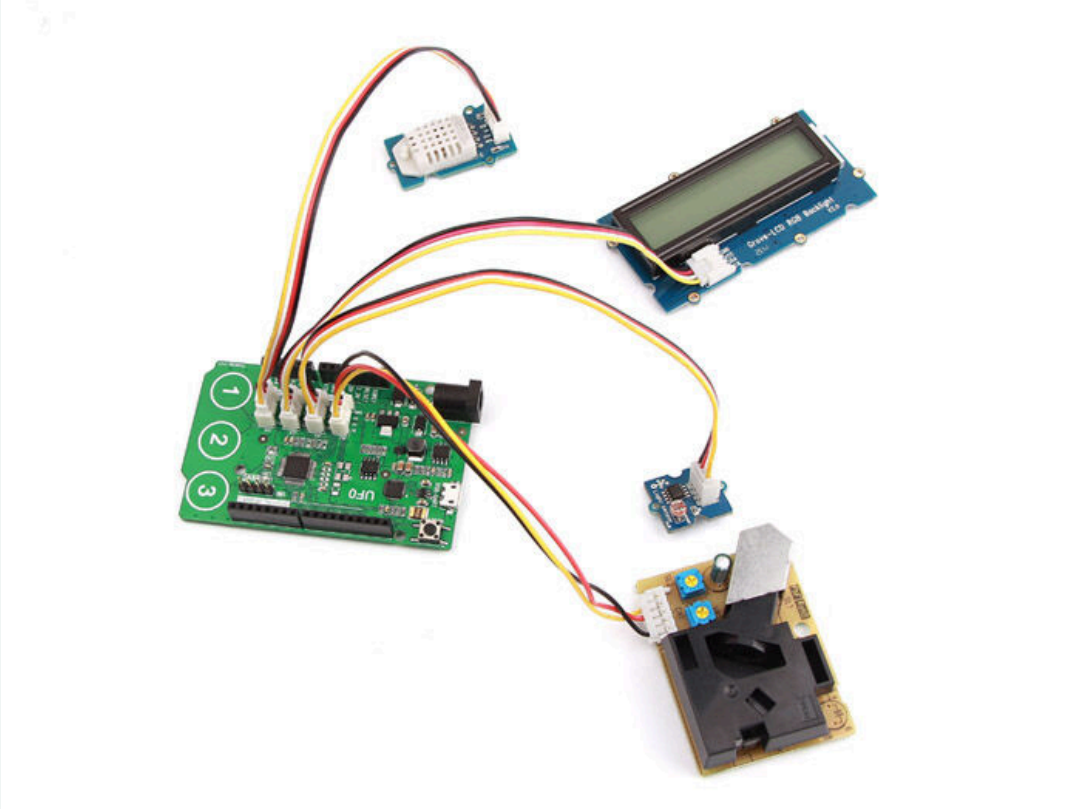
UF0 - STM32F0 Cortex-M0, Arduino& Grove compatible Platform

UF0: STM32F0-based Arduino & Grove platform with touch and efficient power for rapid prototyping.

SKU	UPDATED	PRICE
102990172	2024-08-09 02:02:38	$22.50(Excl. VAT)



Overview



UF0 is an Arduino and Grove compatible prototyping platform based on the ST STM32F051C8T6 Cortex-M0 MCU, offering capacitive touch sensing, a 12-bit DAC, and interfaces including I2C and UART. It supports 7-24V DC input via an integrated step-down converter and enables fast development with the Arduino IDE, ideal for product prototyping with Grove modules.

Key Features

What is UF0?

UF0 is all-in-one arduino-compatible prototyping platform powered by ST STM32F051C8T6 Cortex-M0. It also integrates with Seeed Studio grove 4-pin interface, which can be connected with major grove families, making prototype easier and faster. The TSC capacitive touch controller is the u

nique character for you to have fun with your finger, easy to control the sensors with the touch panel but not programming and it has 32bit timer and 12bit DAC,I2C, UART interfaces for extension.

Integrated with DC-DC Step-down power chip, it can provide highly efficient and stable power for the shields and other modules, especially suitable for those who want to build a product.

Arduino IDE for the software development, it makes your prototype start quickly. It supports **Grove starter kit for Arduino** from Seeedstudio perfectly .

Features:

Who's UF0 For?

UF0 is open source for everyone who ever played or want to try arduino，grove，ST Cortex-M0 chipset , for smart device and practical manufacturable product development . It is for makers , electronic Enthusiast,engineers ,softwares and designers

Why We like it?

- ARM-base 32-bit Cortex-M0 MCU with Low power consumption and high performance
- Up to 8K RAM and 64K ROM
- Capacitive touch sensor ,three Capacitive key in Android Style with more fun
- 7-24V DC wide range input, high efficiency and powerful power supply to hook up stronger device
- Arduino and Grove compatible with support for a rich set of third-party expansion boards
- Dual UART and I2C (Grove Interface) for expansion boards

Specification

Documents

Please visit the **wiki** page for more info about this product.If you have any technical problem, please contact **support [a**

Discover More : we hope that you can discover more highlighs , discover and create more interest and practical prototype with groves ,arduino shields and others , you can post your technical issues and ideas on the forum ,we will discuss with you to build the dream.
For any technical support or suggestion, please kindly go to our**forum.**

Specification

* Size L x W	83.8 x 53.4mm
* Processor	ST STM32F051C8T6, 48MHz 32-bit ARM Cortex-M0 MCU
* Memory	8KB SRAM, 64KB Flash

* Working Voltage	3.3V
* Input Voltage	7V-24V
* Output Voltage	5V/2A 3.3V/500mA
* Digital IO	14个(6*PWM)
* Analog Output	6个(3.3V, 1 *DAC output)

Compliance & Logistics

HSCODE	8543709990

Resource Links

- https://www.seeedstudio.com/UF0-STM32F0-Cortex-M0-Arduino-Grove-compatible-Platform-p-2257.html
- Wiki
- UF0
- STM32

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