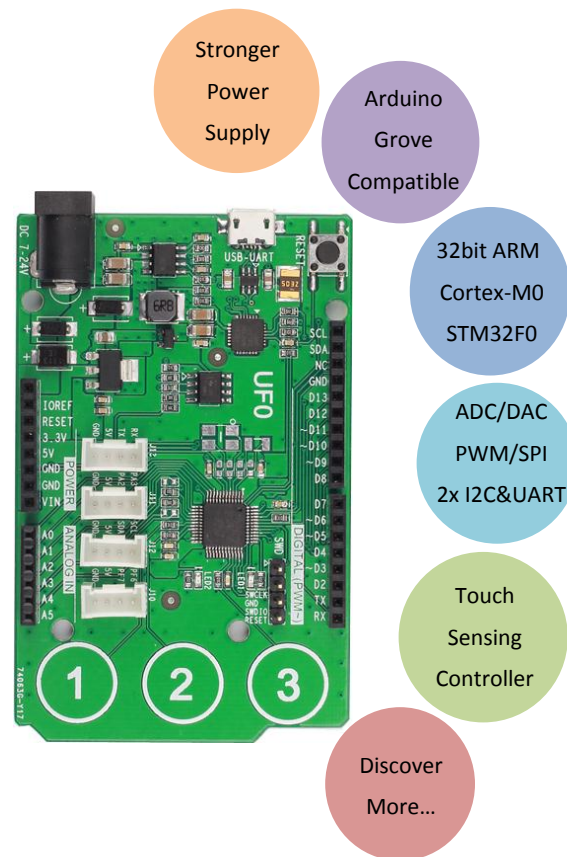# UF0 - STM32F0 Cortex-M0, arduino and grove compatible Platform

What is UF0?

UF0 is all-in-one arduino-compatible prototyping platform powered by ST ARM-base Cortex-M0 STM32F051C8T6. It integrates with Seeed Studio grove 4-pin interface, which can be connected with major grove families, making prototype easier and faster. The capacitive touch controller is the unique character for you to have fun with your finger. UF0 also provides 32-bit timer, 12-bit ADC&DAC, I2C, UART, SPI and GPIO for expansion board.

With the integrated DC-DC Step-down circuit, UF0 board can provide highly efficiency and powerful 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 and easily. It supports [grove starter kit for Arduino](#) from Seeed studio perfectly.

Stronger Power Supply

Arduino Grove Compatible

32bit ARM Cortex-M0 STM32F0

ADC/DAC PWM/SPI 2x I2C&UART

Touch Sensing Controller

Discover More…

Feature

- ARM-base 32-bit Cortex-M0 MCU with Low power consumption and good performance
- Capacitive touch sensor with more fun
- 7-24V DC wide range input, high efficiency and powerful power supply
- 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

- Size   L x W: 83.8 x 53.4mm (3.3 x 2.1 inch)
- Processor   STM32F051C8T6 (48MHz), STMicroelectronics
- Memory   8KB SRAM, 64KB Flash
- Working Voltage   3.3V
- Input Voltage   7V-24V
- Output Voltage   5V/2A   3.3V/500mA
- Digital IO   14 (6*PWM)
- Analog Output   6 (3.3V, 1 *DAC output)