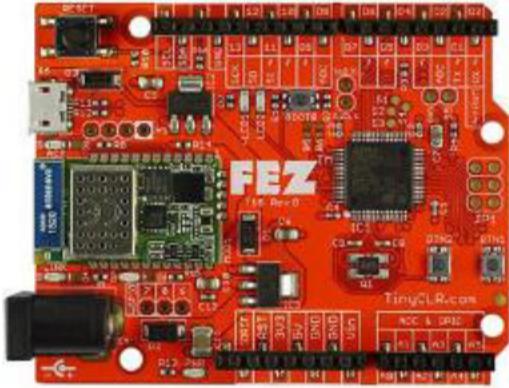# Introduction

The Maker Board to Rule Them All!

FEZ (fast and easy) is our magnificient maker board. This low cost board offers Arduino pinout compatibility, optional Wi-Fi for IOT applications, and can be programmed using multiple programming languages and development environments.

Pricing, purchasing and other information can be found on the FEZ page on our main website.

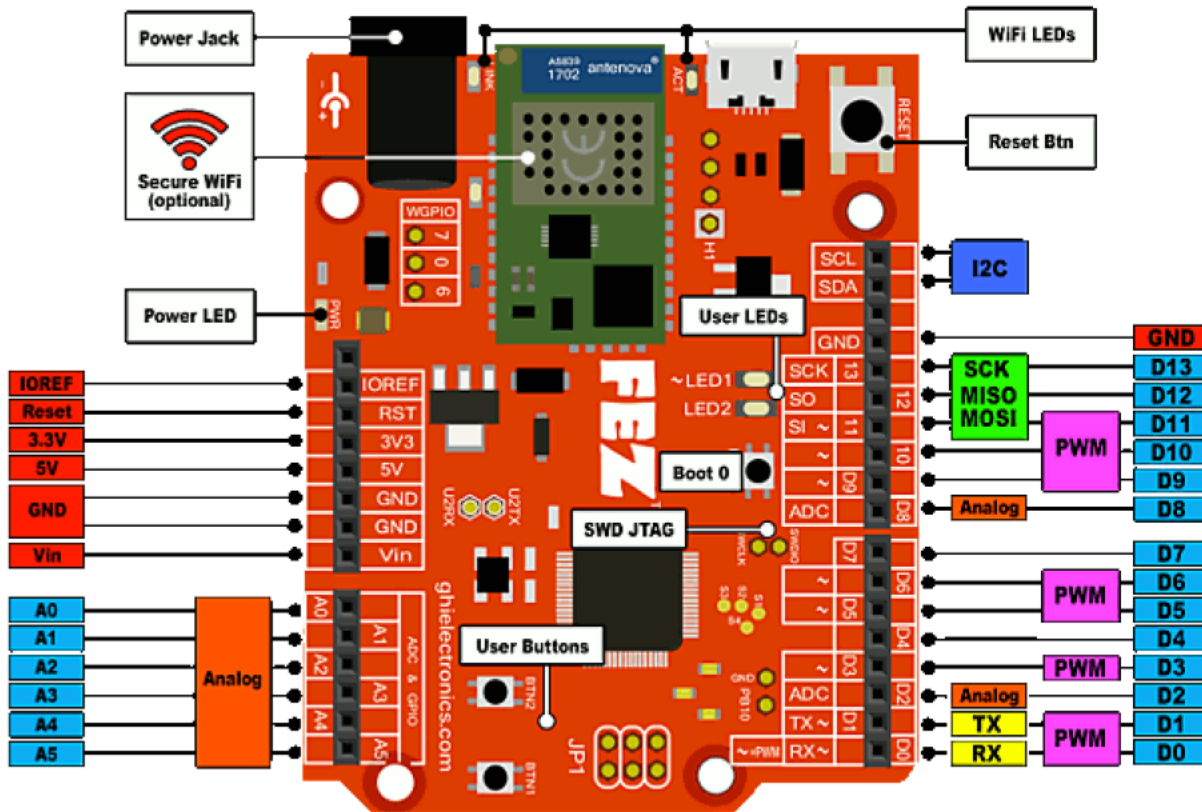## Specifications

Spec	Value
Processor	STMicroelectronics ST32F401RET6
Speed	84 MHz
Internal RAM	96 KByte
Internal Flash	512 KByte
Dimensions	70.6 x 56.0 x 14.5 mm

Peripherals*

Peripheral	Quantity
GPIO (5V tolerant)	22
IRQ	22
UART	1
I2C	1
SPI	1
PWM	8
12 Bit ADC	8
CAN	0
USB Client	1
Wi-Fi	Optional

Note: Many peripherals share I/O pins. Not all peripherals will be available to your application.

Resources

- Schematic
- TinyCLR Tutorials
- Instructions for updating the Wi-Fi module firmware.

Programming Options

TinyCLR Embedded programming using Visual Studio .NET. **Learn more...**	**Arduino** Very popular open source standard. **Learn more...**
Mbed Free online C/C++ compiler. **Learn more...**	**MicroPython** A version of Python for microcontrollers. **Learn more...**
Bare Metal Use the Cortex-M4 compiler of your choice. **Learn more...**	**Shields** Selected to help get you started. **Learn more...**