

## The NB1/Cat. M1 Developer Platform

The **Tuino096** is an Arduino Zero compatible board fitted with the Quectel BG96 module - a seamless integration that allows any developer to experiment with both LTE Cat. NB1 and M1. In addition to multi-band LTE connectivity, the Quectel BG96 adds a GNSS receiver to the board such that the **Tuino096** enables experimenting with complete tracking solutions.

Apart from that, the BG96 is 2G compatible and hence allows GPRS fallback. The application range is thus expanded to remote areas where the new Cat. NB1 and Cat. M1 technologies are not yet available.

In summary, the **Tuino096** offers a complete platform for both makers and R&D departments that want to put in place POC or small scale applications in diverse environments.

## Technical Specs

Microcontroller	ATSAMD21G18, 32-Bit ARM Cortex M0+
Operating Voltage	3.3 V
Digital I/O Pins	20
PWM Pins	3, 4, 5, 6, 8, 9, 10, 11, 12, 13
UART	2 ( User and for BG96 )
Analog Input Pins	6, 12-bit ADC channels
Analog Output Pins	1, 10-bit DAC
External Interrupts	All pins except pin 4
DC Current per I/O Pin	7 mA
Flash Memory	256 KB
SRAM	32 KB
LED_BUILTIN	13
Clock Speed	48 MHz
Length	68 mm
Width	53 mm

For full specifications and code examples visit:

[www.gimasi.ch](http://www.gimasi.ch)  
[www.tekmodul.de](http://www.tekmodul.de)



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