# GroundStudio Tiny416

Breakout board for ATtiny416 chip with 4kB Flash, 256B SRAM, 128B EEPROM, 17x GPIO pins, 12x ADC pins and 2x I2C_3V3 connectors
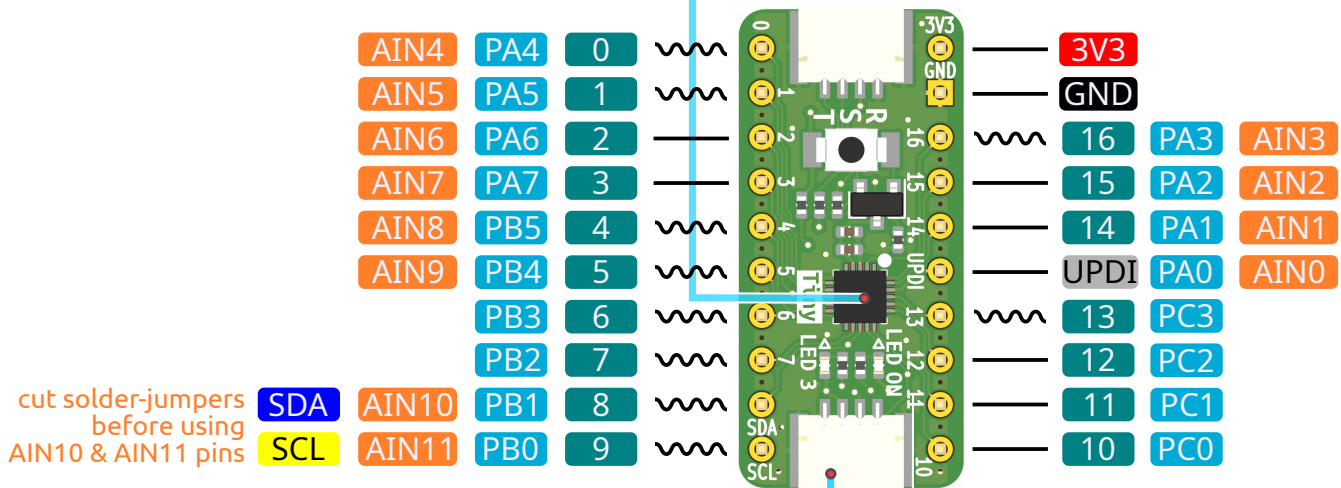
**FABRICAT ÎN ROMÂNIA**

## ATtiny416

The ATtiny416 is a microcontroller using the 8-bit AVR® processor with a hardware multiplier, running at up to 20 MHz and 4 KB Flash, 256B SRAM, and 128B of EEPROM in a 24-pin package.
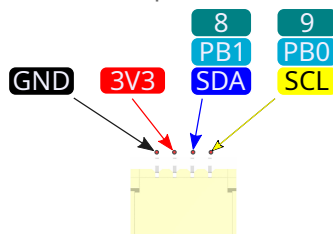
## COLOR DIAGRAM

- Arduino Pin
- uController Pin
- ADC Pin
- SCL
- SDA
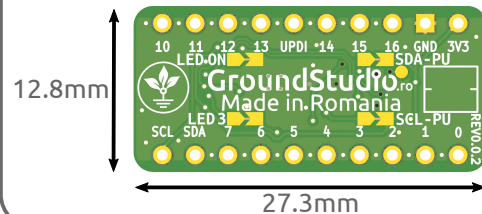- Ground
- Power
- UPDI
- PWM Enabled Pin

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AIN4 | PA4 | 0 | | | 3V3 | | |
| AIN5 | PA5 | 1 | | | GND | | |
| AIN6 | PA6 | 2 | | 16 | PA3 | AIN3 | |
| AIN7 | PA7 | 3 | | 15 | PA2 | AIN2 | |
| AIN8 | PB5 | 4 | | 14 | PA1 | AIN1 | |
| AIN9 | PB4 | 5 | | UPDI | PA0 | AIN0 | |
| | PB3 | 6 | | 13 | PC3 | | |
| | PB2 | 7 | | 12 | PC2 | | |
| SDA | AIN10 | PB1 | 8 | 11 | PC1 | | |
| SCL | AIN11 | PB0 | 9 | 10 | PC0 | | |

cut solder-jumpers before using AIN10 & AIN11 pins

## I²C 3V3

I²C SH adapter with 1.0mm pitch, **Qwiic** and **StemmaQT** compatible.

| 8 | 9 |
|---|---|
| PB1 | PB0 |

GND  3V3  SDA  SCL

## BACK SIDE

12.8mm

27.3mm

10  11  12  13  UPDI  14  15  16  GND  3V3
LED-ON                              SDA-PU

**GroundStudio**.ro
Made in Romania

LED 3                              SGL-PU
SCL SDA    7   6   5   4   3   2   1   0    REV0.0.2

| Board: | "GroundStudio Tiny416" XAAJFJ_GS REV 0.0.2 | |
|---|---|---|
| Credits: | "Adafruit ATTiny816 Breakout" by Adafruit | |
| | | |
| Copyright: | ARDUSHOP SRL 2024 | |
| License: | CC BY-SA 4.0 Attribution-ShareAlike 4.0 International | Pinout REV: 1 |

**GroundStudio**.ro