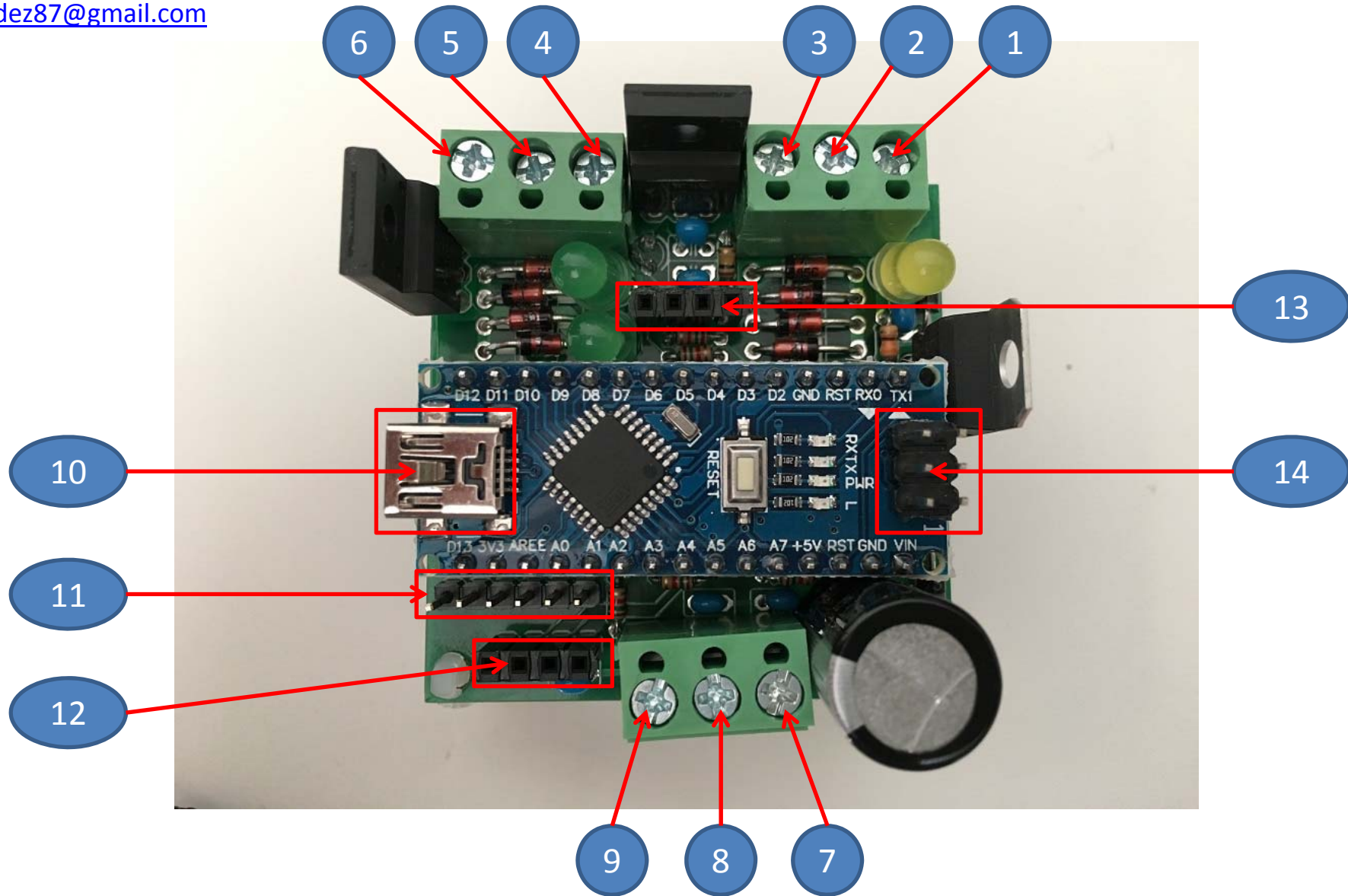


Fuelino Proto2  
Davide Cavaliere  
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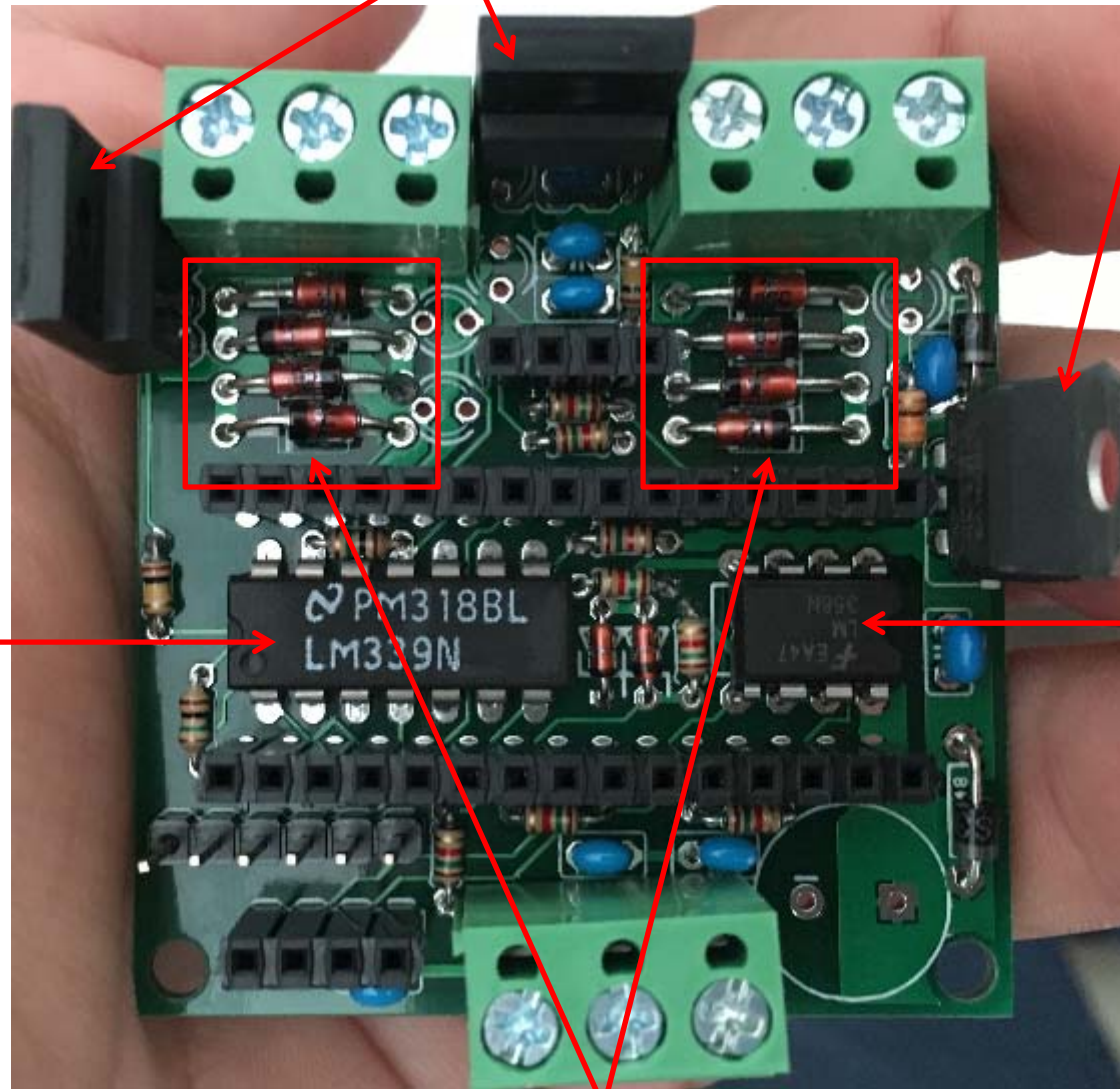
# Fuelino Proto2 Pinout

1. Power Supply (12V)
2. Injector 1 (Cylinder 1) Input
3. Injector 1 (Cylinder 1) Output
4. Ground (0V)
5. Injector 2 (Cylinder 2) Output
6. Injector 2 (Cylinder 2) Input
7. Analog Input (0V – 5V range), Throttle Position Sensor signal
8. Analog Input (0V – 5V range), Lambda Sensor signal
9. Digital Input (General purpose)
10. USB port (serial communication with PC)
11. SPI communication port (6-pin)
12. I2C (TWI) communication port (4-pin)
13. UART communication port (4-pin)
14. Arduino ICSP port, to program Atmel Atmega 328P microcontroller

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FKI10531 MOSFETs

LM7809 Voltage Regulator



LM339N  
Op-amp  
4 channels

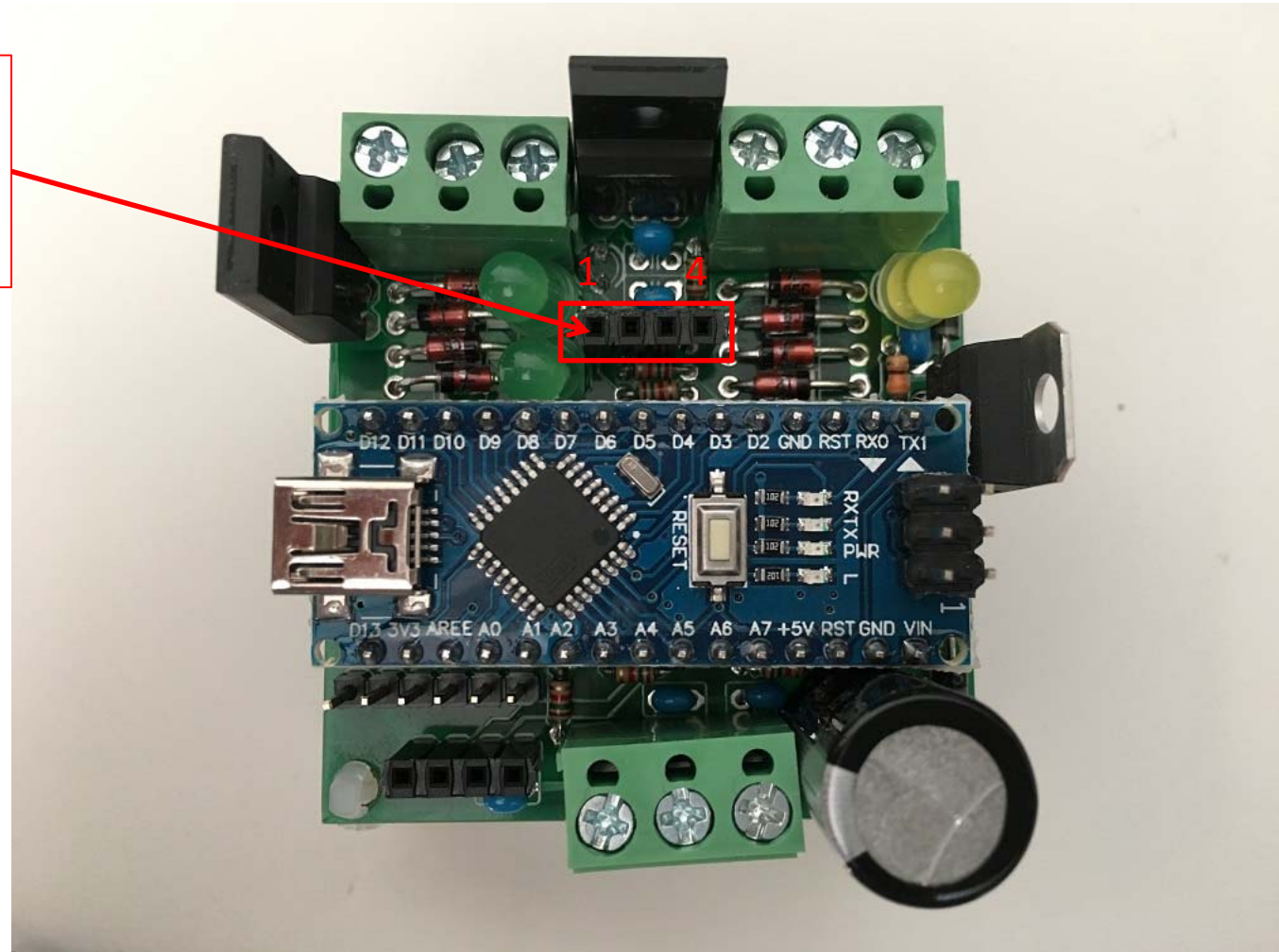
LM358N  
Op-amp  
2 channels

12V Zener Diodes

# UART communication

UART communication port

- (1) TX (Fuelino TX)
- (2) RX (Fuelino RX)
- (3) GND
- (4) 5V

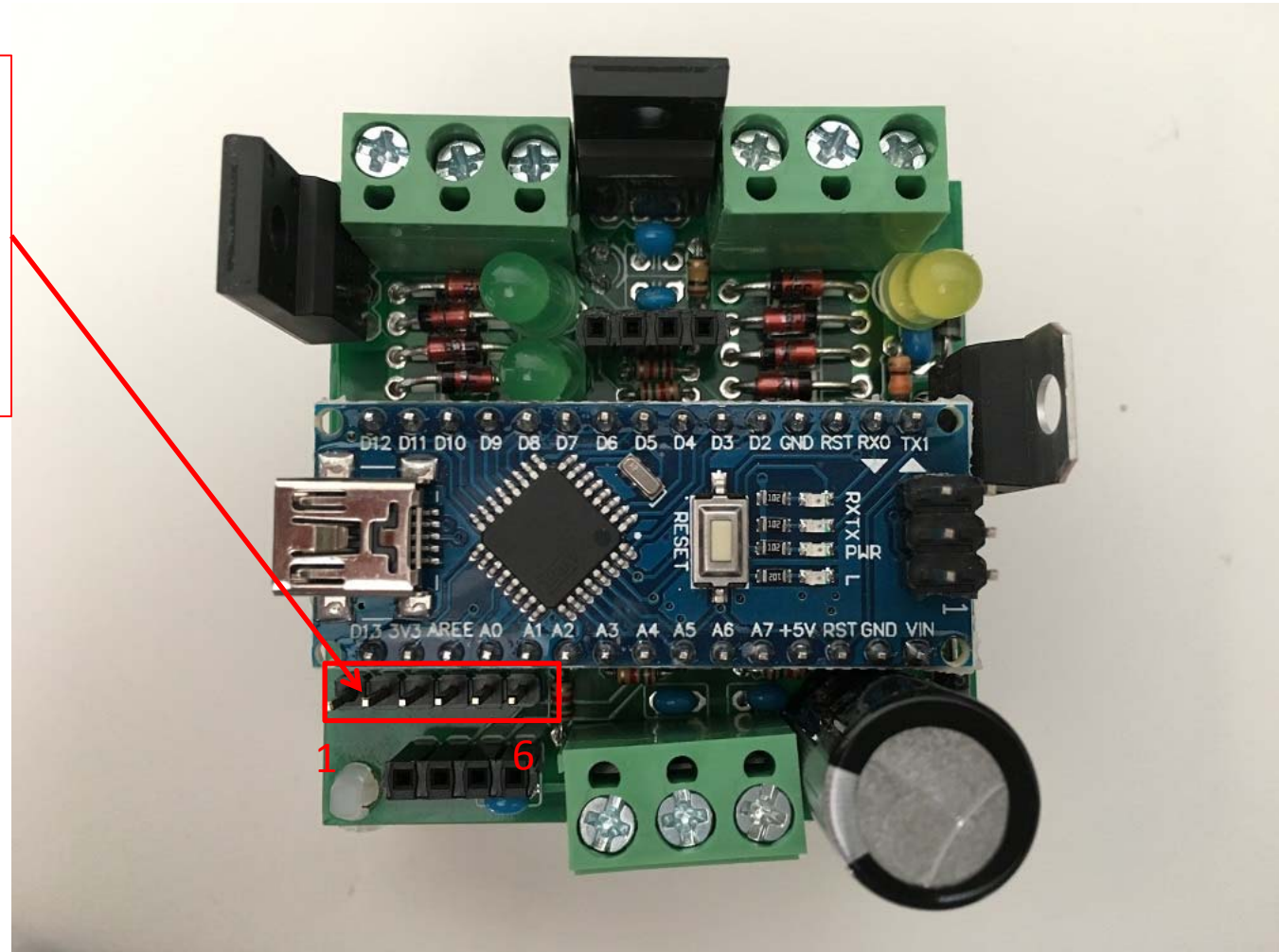




# SPI communication

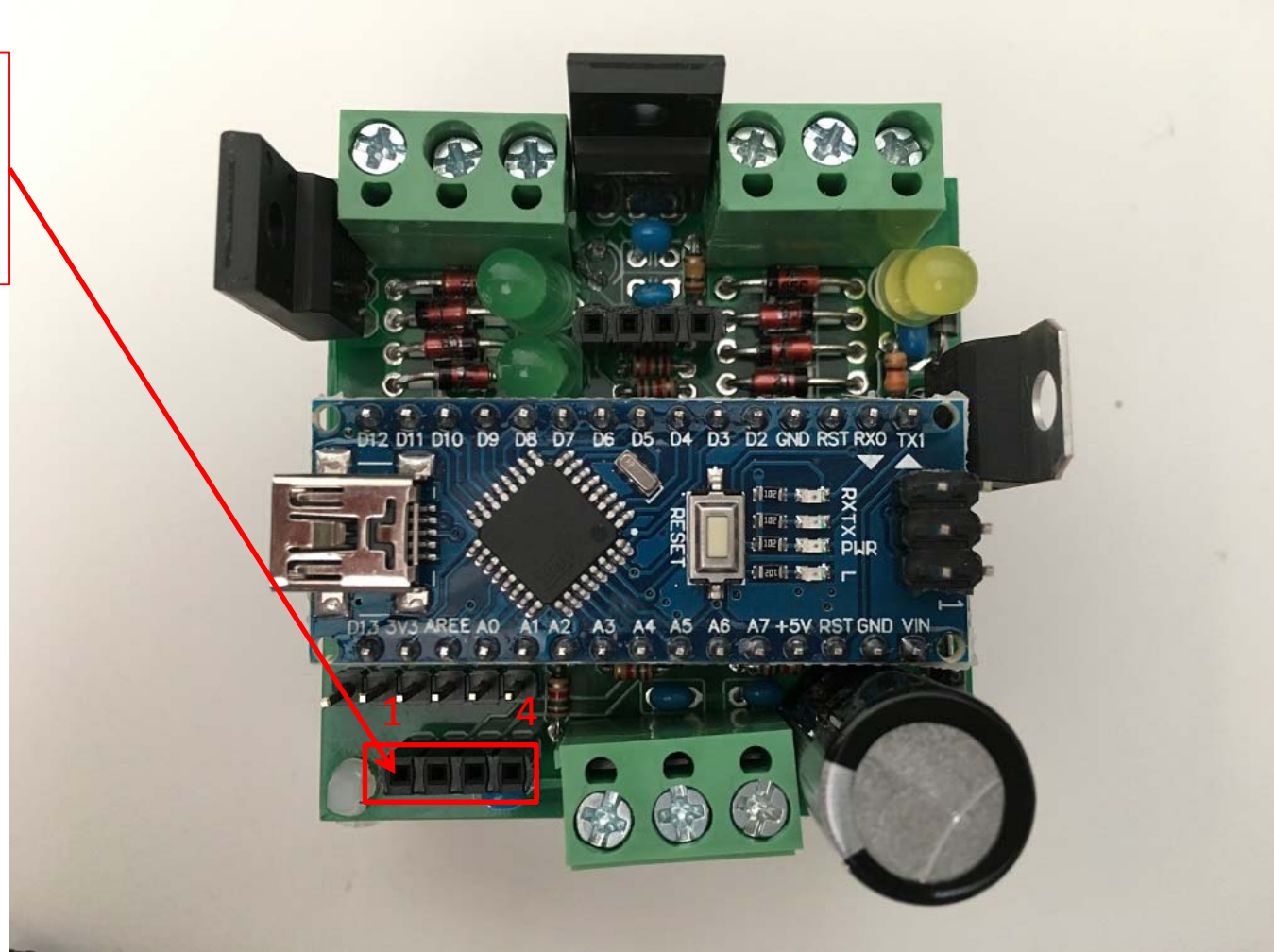
SPI communication port

- (1) GND
- (2) 5V
- (3) MISO
- (4) MOSI
- (5) SCK
- (6) SS (Slave Select)

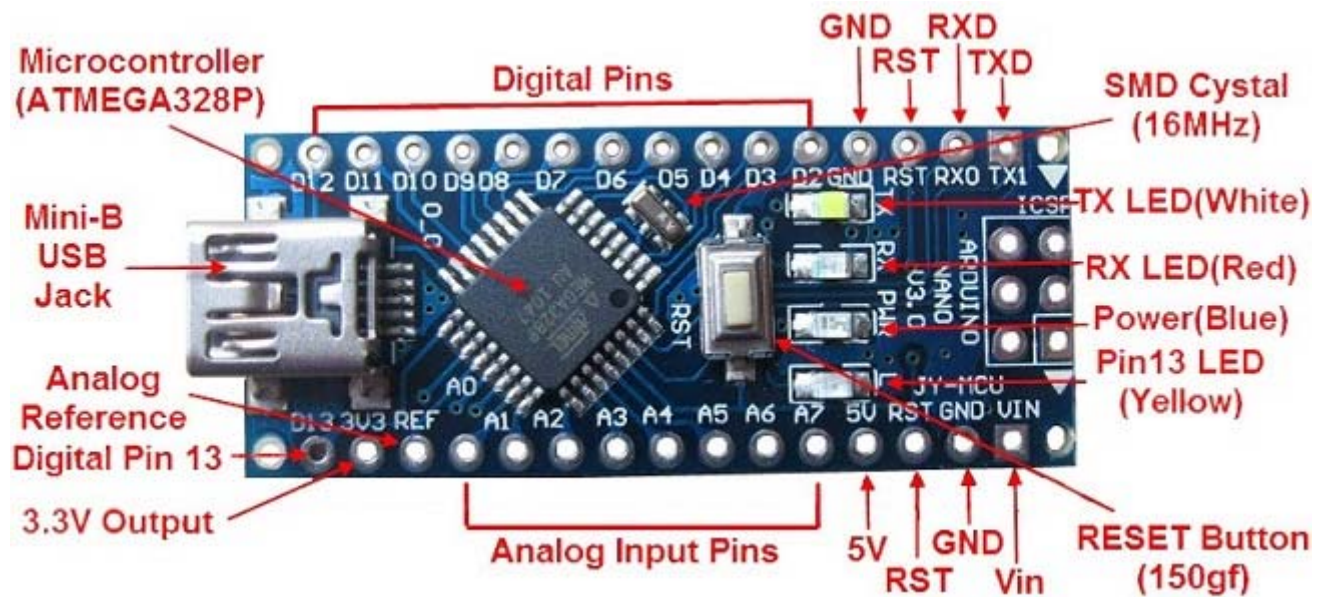


# I2C (TWI) communication

- I2C communication port
- (1) GND
  - (2) SDA
  - (3) SCL
  - (4) 5V

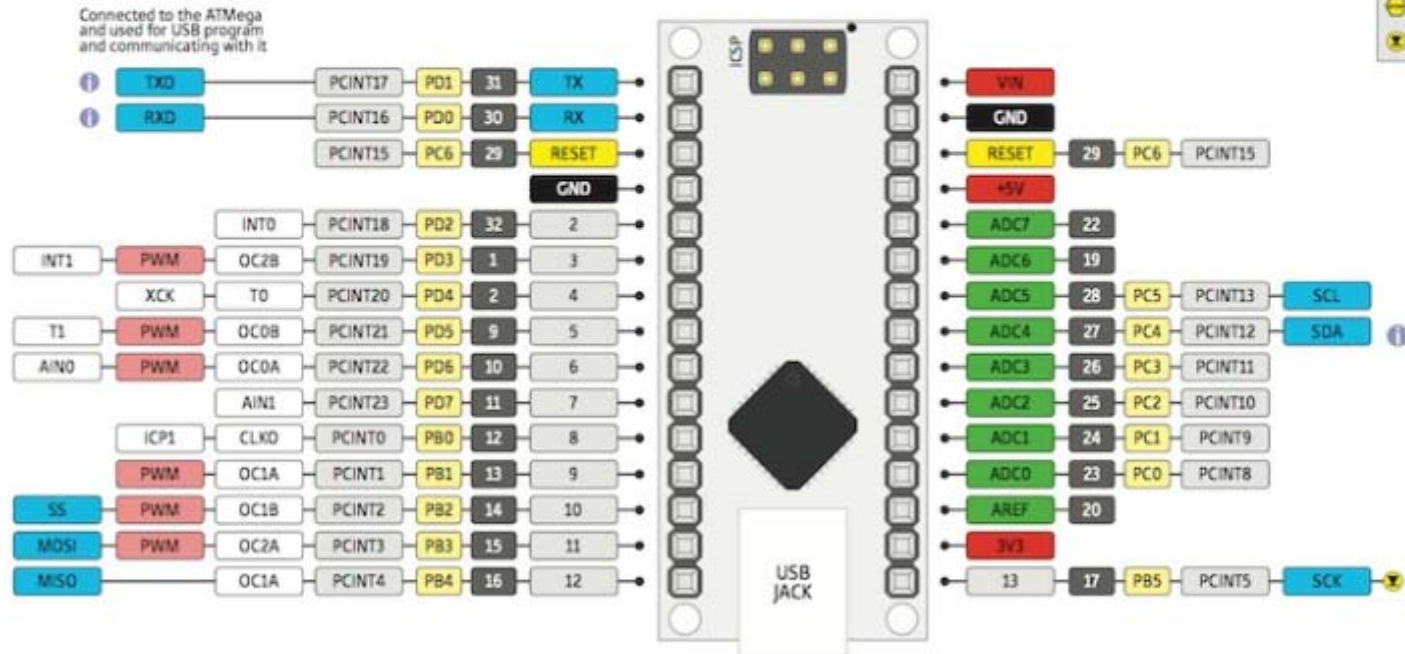
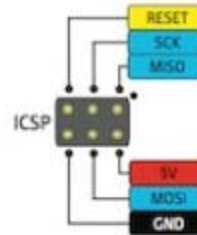


# Arduino Nano Rev3



THE UNOFFICIAL  
**ARDUINO NANO**  
PINOUT DIAGRAM

- ⚠ Absolute max per pin 40mA recommended 20mA
- ⚡ Absolute max 200mA for entire package



**LEGEND**

- GND GND
- POWER POWER
- CONTROL CONTROL
- PHYSICAL PIN PHYSICAL PIN
- PORT PIN PORT PIN
- ATMEGA328 PIN FUNC ATMEGA328 PIN FUNC
- DIGITAL PIN DIGITAL PIN
- ANALOG-RELATED PIN ANALOG-RELATED PIN
- PWM PIN PWM PIN
- SERIAL PIN SERIAL PIN

ⓘ General Information  
 ⚠ Pay Attention  
 ⚡ No Really PAY ATTENTION  
 ⚡ LED

ⓘ On version 2 Analog Pins are reversed e.g. A0↔A7, A7↔A0