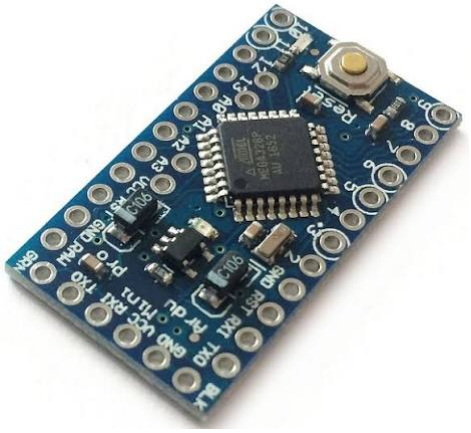
Arduino Pro Mini 5V 16MHz

Compact ATmega328P Development Board



The Arduino Pro Mini is a compact ATmega328P-based board designed for embedded projects where small size and low power are important. Its compact design makes it easy to integrate into custom electronics, robotics and permanent installations.

TOP USES

- Embedded Projects
- Robotics
- Automation
- Custom Electronics

KEY FEATURES

- ATmega328P
- 16 MHz Clock
- 5 V Logic
- 14 Digital I/O
- 6 Analog Inputs
- Small Form Factor

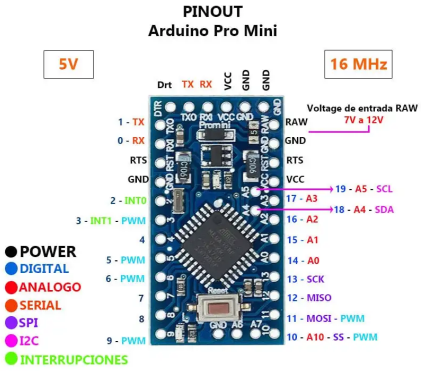
Technical Specifications

Arduino Pro Mini 5V 16MHz

Parameter	Value
Microcontroller	ATmega328P
Operating Voltage	5 V
Clock Speed	16 MHz
Digital I/O	14
PWM	6
Analog Inputs	6
Flash	32 KB
SRAM	2 KB
EEPROM	1 KB
Communication	UART / SPI / I2C

Pinout

Arduino Pro Mini 5V 16MHz



PIN FUNCTIONS

Pin	Function	Notes
D0 / D1	UART RX / TX	
D2 - D13	Digital I/O	
D3 / D5 / D6 / D9 / D10 / D11	PWM	
A0 - A5	Analog Input	
A4 / A5	I2C SDA / SCL	
D10 - D13	SPI	
VCC	5 V Power	
RAW	External Input	
GND	Ground	

WIRING NOTES

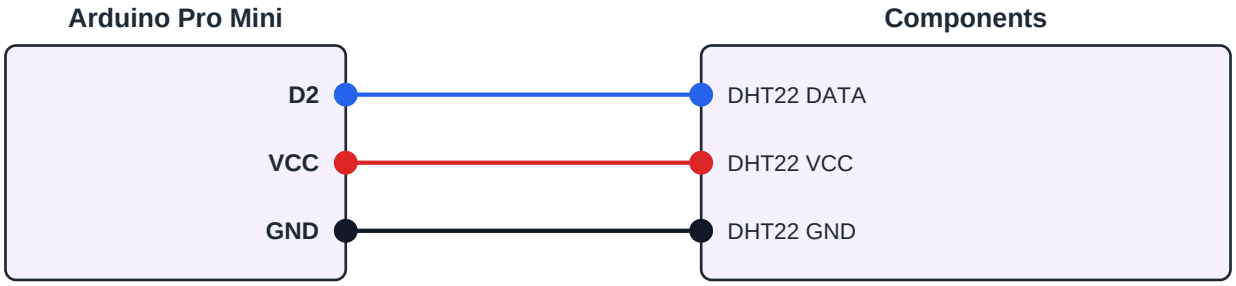
- 5 V logic.
- Requires an external USB-to-Serial adapter for programming.
- Keep power within the board's recommended limits.

Example Project

Mini Temperature Monitor

Use a DHT22 sensor to read temperature and humidity with the compact Pro Mini.

CIRCUIT



EXAMPLE CODE

```
#include <DHT.h>

#define DHTPIN 2
#define DHTTYPE DHT22
DHT dht(DHTPIN, DHTTYPE);

void setup(){
  Serial.begin(9600);
  dht.begin();
}

void loop(){
  float t=dht.readTemperature();
  float h=dht.readHumidity();

  Serial.print("Temp: ");
  Serial.print(t);
  Serial.print(" C  Humidity: ");
  Serial.print(h);
  Serial.println(" %");

  delay(2000);
}
```

EXPECTED RESULT

- Temperature is read from DHT22.
- Humidity is displayed through Serial.

Useful Links

Arduino Pro Mini 5V 16MHz

Resource	Link
Arduino Pro Mini	https://docs.arduino.cc/retired/boards/arduino-pro-mini/
Arduino IDE	https://www.arduino.cc/en/software
Language Reference	https://www.arduino.cc/reference/en/

COMPATIBLE COMPONENTS

- DHT22
- HC-SR04
- SG90 Servo
- MPU6050
- OLED Display

Need this component?

Buy Arduino Pro Mini 5V 16MHz >>

https://techzoneegypt.com/p/arduino-pro-mini-5v-16mhz