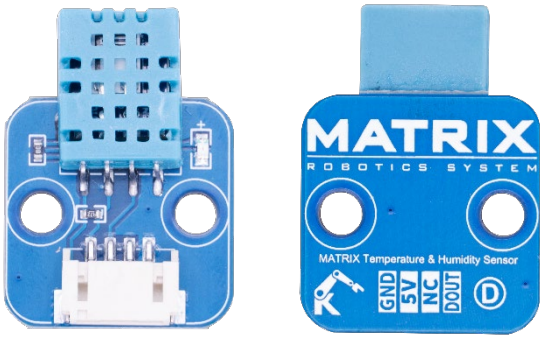
MATRIX Temperature and Humidity Sensor

MS-011

1.Feature

· Enhanced Accuracy and Precision.
· Low Power Consumption.
· Waterproof.



2. Application

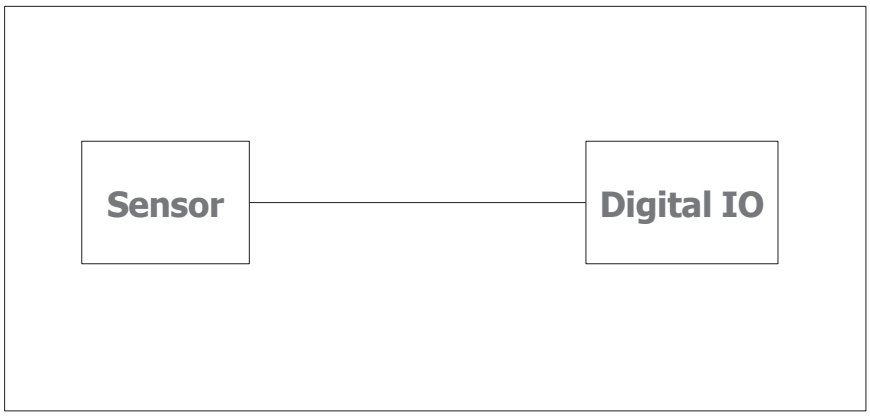
· Home automation.
· Easy to Use

3. Introduction

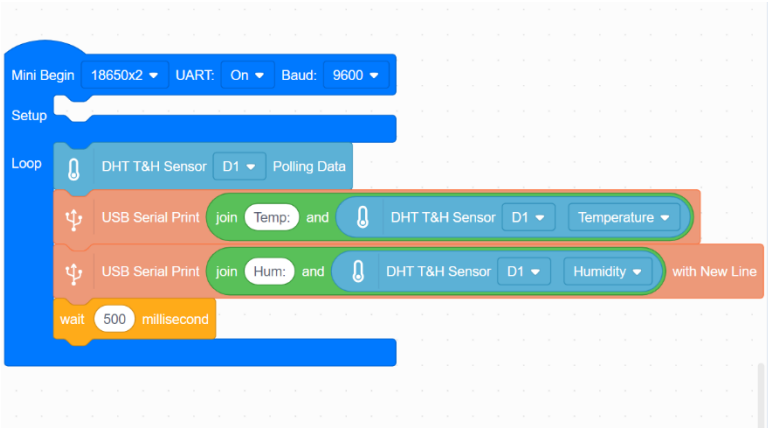
Temperature and Humidity Sensor (DHT11) is as powerful as it used to be but easier to use.

Has a full range temperature compensation, low power consumption, long term stability and calibrated digital signal.

4. Block Diagram



4.Example Code of Block and C++




```ino
#include "MatrixMiniR4.h"

float DHT11_D1_temp;
int DHT11_D1_hum;

void setup()
{
  MiniR4.begin();
  MiniR4.PWR.setBattCell(2);
  Serial.begin(9600);
}

void loop()
{
  MiniR4.D1.MXDHT.readTemperatureHumidity(DHT11_D1_temp, DHT11_D1_hum);
  Serial.print(String("Temp:") + String(DHT11_D1_temp));
  Serial.println(String("Hum:") + String(DHT11_D1_hum));
  delay(500);

}
```

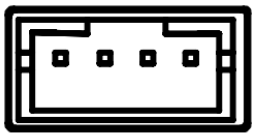
· After download program into controller, open Serial Monitor to observe.

5. Hardware Spec

· Voltage: 3.3v – 5v

· Temperature range: 0 ~ 50℃ ± 2

· Humidity range: 20 ~ 90%RH ± 5



1 4

JST PH2.0

Pinout-Digital Out			
NO.	Name	I/O	Description
1	DOUT	I/O	Digital output
2	NC	-	NC
3	5V	O	Supply voltage
4	GND	-	Supply ground